Oil, Paint and Drug Reporter

The Chemical Market Authority Since 1871

Volume 154 No. 2 July 12, 1948

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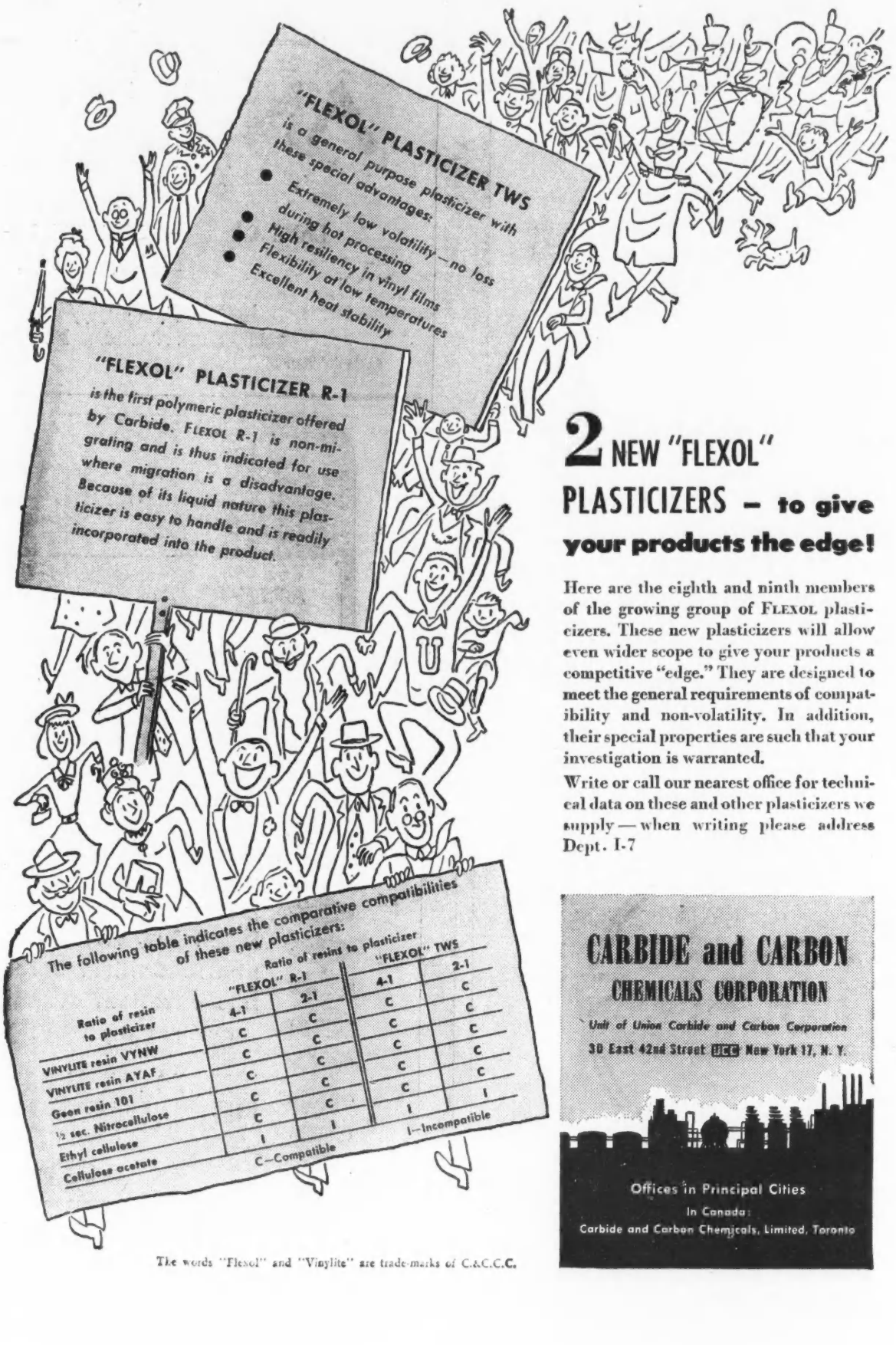
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VINYLITE resin AYAF	C	C	C	C
Geon resin 101	C	C	C	C
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Ethyl cellulose	C	C	C	C
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Oil, Paint and Drug Reporter

Volume 154 No. 2 — New York 7, N. Y. — July 12, 1948

IEFC Sets 1948-49 Nitrogen Allocation

Allocation of the world's available supplies of nitrogen for fertilizer for the 1948-49 fertilizer year was set at 2,233,283 metric tons by the International Emergency Food Committee last week. Total requirements of the 100 or more claimant countries and areas were estimated at 3,085,661 metric tons, leaving a deficit in available supplies of about 852,378 metric tons.

While the amount of nitrogen for fertilizer available for distribution this year is somewhat higher than the 1,906,902 metric tons originally declared to be available for last year, the shortage in relation to demand remains approximately the same. The IEFC explained that this is because need is now much greater than prewar since soil fertility lost during the war years must be restored; larger populations must be fed, and since many nations are anxious to increase their production of basic foodstuffs in working toward higher levels of nutrition.

Insofar as the United States is con-

—*Continued on page 44*

Nitrogen Fertilizer Seen More Available in 1948-49

The quantity of nitrogenous fertilizer expected to be available to farmers in the United States for the fertilizer year July 1, 1948, to June 30, 1949, will be about 10 percent greater than the record quantity used in the country during the season just ended, according to an announcement made last Thursday by the Department of Agriculture. A total of 902,000 short tons of fertilizer nitrogen is expected to be available this year in all forms of material, compared with 817,000 tons last year.

Three developments contributed about

—*Continued on page 44*

Farm Price Support Extension Approved

President Truman announced the signing into law July 3 of H. R. 6248, extending until 1950 the temporary system of rigid price supports for agricultural products and providing for a sliding scale of price supports beginning in 1950.

He criticized Congress, however, for not providing the basic declaration of long-range agricultural policy which is needed to round out the present farm program and said that the bill was only a "gesture" toward this end.

Census Bureau Activities Curtailed by Lack of Funds

A number of curtailments of the current statistical services of the Bureau of the Census during this fiscal year were announced last Friday by Secretary of Commerce Charles Sawyer. The curtailments are necessary because of Congressional action reducing appropriations.

Eight of the current industrial surveys now being conducted will be discontinued, four will be changed in frequency from monthly to annual, and ten from quarterly to annual reports. Among the surveys to be discontinued are those covering production of gelatin, glue and bone black, and porcelain enamel products. Among those to be changed from a monthly to an annual basis are surveys on production of plastics materials and coated fabrics.

Other industry surveys for which the frequency of coverage will be reduced involve paints, pulp and paper, consumption of raw wool, nonferrous castings, metal containers and closures.

Price Index Slightly Depressed

Buying interest in chemicals, oils, and drugs has gone into an early Summer slump, and only where supplies are especially tight is it possible to attempt to catch up in asking prices with increased production costs. For that reason price reductions outweighed, as well as outnumbered, advances made last week in the markets for those materials. The result was a cut of 0.4 point in the overall index.

Fats and oils contributed most to the price weakening. They again got help from botanical drugs, the movements in both groups being wholly on the downside. Essential oils showed a slight gain for a change. Fine chemicals of all types were quiet for the most part, even the expectations of price boosts on coaltar chemicals were erased by easing demands and some increases in production; penicillin and benzene hexachloride were reduced. Heavy chemicals, although mostly showing price advances, were in an uncertain position. Some forms of sodium sulphide were advanced; one was reduced. Muriatic acid was higher in carboys, lower in tankcars. Lactic and sulphuric acids were advanced; so were nickel salts.

The cuts in botanical drug prices affected twenty-four materials. Spices were mostly lower; but cloves and clove oil were upped. Castor beans were higher; copra was lower—largely matters of monetary exchange in both cases. Shellac was higher; copals, dammars, and elemi were lower. Tankage was advanced because of tightening supplies. Imported casein responded to elevating influences in the affairs of producing lands. Egg yolk was cheaper because supply was over-reaching demand. Both edible and drying vegetable oils were put on lower price levels, and two animal oils were in the same position.

OPD Price Index

The OIL, PAINT, AND DRUG REPORTER'S relative record of prices for chemicals and related materials is currently as follows:—

July 9, 1948	July 2, 1948	July 10, 1947
146.5	**146.9**	**143.0**

The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the inter-war period.

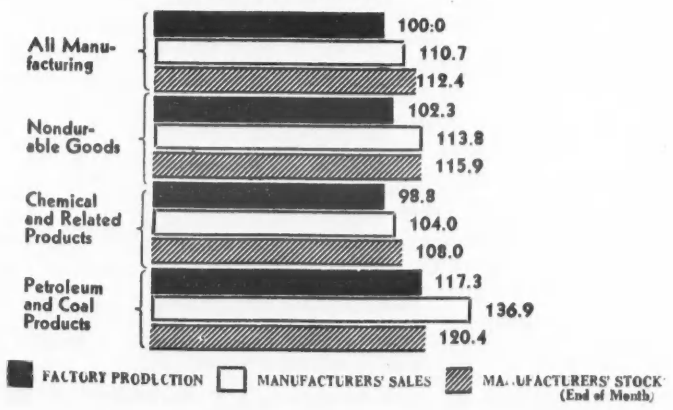
OPD Index Monthly Averages

	1948	1947	1946	1945	1941
January	150.4	150.9	135.3	133.0	107.8
February	147.2	151.9	135.4	133.2	110.3
March	146.2	154.9	135.2	132.7	111.9
April	146.2	152.3	134.9	132.2	115.5
May	146.7	146.1	135.1	132.3	118.2
June	147.3	143.9	135.4	132.5	121.9
The year....	*147.4	147.6	138.8	133.8	123.2

* Six months.

Business in April, 1948

100=Same Month in 1947



AEC Acts to Expand Industry's Role in Radioisotope Research

A program for the production and domestic distribution of several important chemicals, tagged with radioactive elements, for research, medical and industrial use, was announced by the Atomic Energy Commission July 10. A chemical compound, such as table salt or ethyl alcohol, is a material formed of two or more elements in fixed proportions. If one of the constituent elements is radioactive, the material is a tagged or labeled compound which may be traced during the course of an experiment.

For the past two years investigators have been able to get radio isotopes from the Oak Ridge National Laboratory. However, if they wished to use the materials in other than their original form, they have had to synthesize or manufacture the compounds in small lots in their own laboratory. Frequently this proved inconvenient and expensive. The wider availability of such products will facilitate research work in many scientific fields.

Commercial firms will be encouraged to manufacture and distribute for sale tagged compounds, the radioactive materials being obtained from the Atomic Energy Commission. This is in line with the commission's announced policy of encouraging private industry to develop the use of radioactive materials wherever industrial participation proves feasible.

Certain selected compounds for which adequate commercial production does not exist will be produced in the commission's laboratory for general distribution by the commission. However, the commission hopes that private firms will enter the field to such an extent that it will be able to withdraw from the manufacture of such compounds for general distribution.

Price Fixed by Manufacturer

The price to be charged for isotope labeled compounds produced by commercial firms will be established by the firm manufacturing the material in accordance with normal industrial practices. At present radioisotopes are sold through the isotopes division at a price set to cover the costs of final fabrication. This price does not cover, for example, the cost of amortizing the investment in laboratory equipment and nuclear reactors, which are used for research purposes other than radioisotope production.

Consequently the present pricing policy results in a subsidy of research in which radioisotopes are used. If and when radioisotopes are used on a large commercial scale, it may be necessary to re-examine the pricing policy.

The saving which can be effected by volume production programs is illustrated by considering the cost to a primary user of one millicurie of ethyl iodide containing carbon 14. The synthesis of a ten millicurie lot could be done at little more than the cost of a one millicurie lot.

Carbon 14 Compound Available

Among the carbon 14 labeled compounds of special interest to research workers which are available at present are barium carbide, methyl iodide, methanol, ethyl iodide, and ethyl bromide (tagged

—*Continued on page 57*

Chrome Chemicals Quotas For Export to Stand

Export quotas for chromic acid and sodium bichromate will not be further reduced for the time being, it was announced July 6 by the Office of International Trade of the Department of Commerce.

The conclusion to maintain present quota levels for chrome chemicals was reached after an advisory meeting between officials of the Office of International Trade and the Office of Domestic Commerce and representatives of the chrome chemicals trade, held in the Department of Commerce June 30 (see OPD, July 5, page 3). Although chrome chemicals are in tight domestic supply, it was the conclusion of both trade and government representatives that the current export quotas for chrome chemicals are not unduly high and do not seriously affect the domestic consumer.

Export quotas for chromic acid have been progressively reduced from 1,000,000 pounds per quarter a year ago to 400,000 pounds in the second quarter of 1948, and quotas for sodium bichromate have undergone a similar reduction. These amounts would do little to alleviate domestic shortages, and constitute an irreducible minimum to help meet the essential needs of foreign countries, including those which supply the chrome ore used to manufacture these chemicals. Excluding shipments to Canada—not subject to quota—current exports of chromic acid represent only 2.1 percent of United States production; for sodium bichromate, exports now are 4.7 percent.

Fats and Oils Foreign Marketing Survey Set

Howard A. Akers, a marketing specialist of the Production and Marketing Administration's fats and oils branch, will study conditions abroad affecting foreign markets for this country's present or potential exportable supplies of fats, oils and oilseeds, it was reported last Wednesday.

His survey will be made through the Office of Foreign Agricultural Relations under the research and marketing act, and will be similar to studies made, now under way, or planned with regard to the foreign markets for United States cotton, rice, tobacco, fruits, potatoes, tree-nuts, and seed.

Mr. Akers will leave about August 1 for western Europe where he will first study fats and oils markets. He will visit the United Kingdom, Denmark, Belgium, the Netherlands, France, Italy, the Anglo-Egyptian Suda, Tanganyika, South Africa, Angola, the Belgian Congo, French Equatorial Africa, Nigeria, Liberia and French West Africa, and return to the United States in late November.

As the United States imports some types of oils and is in position to export others, the facts and data to be assembled by Mr. Akers are expected to fill a definite informational need of the fats, oils and oilseeds production and marketing industry in this country.

Nitrogen Industry Parley With Commerce Dept. Set

The nitrogen producers industry advisory committee will meet in Washington tomorrow and Wednesday at the Department of Commerce to discuss the 1948-49 fertilizer nitrogen export allocation program. The meeting will also consider the allocation of anhydrous ammonia produced at the Army's ordnance plants, 10 percent of which is to be distributed among ammonium sulphate manufacturers at the direction of Congress.

Wood Preservatives Use Increased 13% in 1947

Treatment with preservatives of forest products going into industrial use for railroads, telephone and telegraph lines, harbor installations and construction projects in the United States, as measured by the amount of wood treated, was 13 percent higher last year than in 1946, the Forest Service in the Department of Agriculture reported today.

The total material treated last year was the largest on record, except for that in 1939 when the previous record was achieved. In 1939 the amount of wood treated before being put to use was 362,009,047 cubic feet, as compared to 349,485,790 last year, and 304,060,648 in 1946. During the war the difficulty in getting chemicals, manpower shortages and other factors greatly cut down the amount of wood treated. Previous to the war, the amount of wood treated annually had been steadily increasing.

The forest service report on 1947 preservative treatment of wood is based upon reports from 289 plants representing more than 95 percent of the industry. Plants of this character operate in forty-four states.

The chemicals used in the treating processes were mainly creosote, creosote petroleum, chromated zinc chloride and Wolman salts. A total of 279,874,328 gallons of liquid preservative, and 16,247,075 pounds of solids were used.

OIT Simplifies Export Regulations

A further simplification of its licensing procedure covering shipments of non-positive list commodities to group R destinations was announced last Thursday by the Office of International Trade.

Groups of non-positive list commodities may now be authorized for export to a single consignee in a single group R destination under a single license. Heretofore it has been necessary to obtain separate validated licenses covering each particular commodity.

In setting up the new procedure, the agency has established seventy-two groups of commodities, and all commodities within a group may be exported under a single license if they fall within the limits of the schedule B numbers applying to the group.

Among the groups established are the following: Group 6, druggists' rubber sundries; Group 14, naval stores; Group 15, crude drugs, gums and essential oils; Group 18, synthetic fibers and manufactures; Group 24, lubricating oils; Group 33, sulphur; Group 46, X-ray and other therapeutic apparatus; Group 50, coaltar crudes and intermediates; Group 51, coal-tar dyes; Group 52, synthetic flavors and finished coaltar products, n.e.s.; Group 53, drugs and medicines; Group 54, insecticides; Group 55, chemical specialties and salts; Group 56, synthetic resins; Group 57, organics, non-coaltar; Group 58, pigments, paints and varnishes; Group 59, fertilizer materials, except bone ash dust and meal; Group 60, explosives, and Group 61, toiletries.

Du Pont Names Wardenburg Pigment Dept. Sales Head

E. I. du Pont de Nemours & Co., Wilmington, Del., has appointed Frederic A. C. Wardenburg director of sales of its pigments department, effective August 1, to succeed Dr. D. H. Dawson, who has been appointed assistant general manager of the department.

Mr. Wardenburg's former position as manager of the company's London office will be assumed by Dr. Charles J. Harrington, formerly technical representative in the London office.

Mr. Wardenburg joined the company in 1928 as a member of the engineering department, and served in that department until 1933. From 1933 to 1937 he was assigned to the London office, and upon returning to this country was assigned to the foreign exchange section of the treasurer's department.

For a period of two years he served as assistant treasurer of the company's subsidiary, the Remington Arms Company, and returned to London in 1944. Shortly thereafter he was transferred to the explosives department for work on the atomic energy project, and in 1945 was appointed manager of the London office.

Lard Shipments to Cuba Curbed in Third Quarter

Exporters have been notified by the Office of International Trade that licenses will be granted for shipment of lard to Cuba during the third quarter only to those exporters who received licenses during the first two quarters.

The step was taken as a temporary measure to cope with the tremendous increase during recent months in the number of new applicants for licenses to ship lard to Cuba. The total number of new applicants in the first quarter was 47; in the second quarter, 196; and in the third quarter, 456.

New England Alcohol Elects Huntington Vice-President

Paul O. Huntington, sales manager of New England Alcohol Company, Boston, Mass., has been elected vice-president, it was announced last Monday by Dr. L. A. Pratt, president of the firm, which is a subsidiary of Monsanto Chemical Company, St. Louis, Mo. He has been with the company in a sales capacity since 1935.

Spencer Kellogg Awards Plant Expansion Contract

Spencer Kellogg & Sons, Inc., vegetable oil refiner, Buffalo, N. Y., has awarded a contract for a $3,000,000 expansion program at its plant in Decatur, Ill. The contract, let to the Crosby Construction Company, Chicago, calls for a 500-ton per day soybean soivent extraction unit, a meal storage building, and new soybean meal and oil shipping facilities.

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Frontier Chemical Doubling Denver City Plant Output

Frontier Chemical Company, Midland, Tex., is increasing the current production at its Denver City, Tex., plant to produce 25,000 tons of 20 degrees Be' muriatic acid and 7,500 tons of caustic soda annually. Facilities for the manufacture of solid and flake caustic are included. The project, to cost an estimated $400,000, and to more than double original production of these products, is scheduled for completion by the end of the year.

Falk Acquires Assets Of Northwest Linseed

The assets and business of the Northwest Linseed Company, Minneapolis, have been acquired by Falk & Co., Pittsburgh, Louis J. Reizenstein, Falk president, announced last Tuesday. The acquisition now gives Falk complete independent and integrated control of linseed oil and meal from the flaxseed to the finished raw, refined and processed oils.

Agronomists to Meet

The division of applied agronomy of the American Society of Agronomy will meet in Fort Collins, Colo., on August 24 to 27. There will be a program on "Practical Results in the Fertilization of Small Grains," under the direction of Dr. W. E. Colwell, and one on "Diagnosis of Plant Nutrient Status," under the direction of Dr. Garth W. Volk.

Gypsum Plant Planned

Columbia Gypsum Products, Inc., Spokane, Wash., will operate a large gypsum deposit containing at least 400,000,000 tons of high-grade gypsum at Windermere, B. C., Canada. Plans are being made for the installation of a processing plant in Spokane, at an estimated cost of $700,000.

Girdler Names Wood Executive Vice-Pres.

The Girdler Corporation, Louisville, Ky., has elected W. Roberts Wood executive vise-president. Mr. Wood has been associated with the organization since 1929, and has been in charge of its gas processes division since 1938.

National Gypsum Co. Names Brown General Sales Head

National Gypsum Company, Buffalo, N. Y., has appointed John W. Brown general sales manager, and has named James J. Ryan to a new position as general commodity manager. Mr. Brown, who joined the company in 1935, has been sales manager of the Dallas, Tex., district since 1941. Mr. Ryan has been with the company since 1934.

Plastics Show Sept. 27

The Society of the Plastics Industry will present its third national plastics exposition in Grand Central Palace, New York, on September 27 to October 1. Planned as a purely trade and industrial show, the general public will not be invited.

Foreign Market Lists

Lists of foreign outlets for chemicals and related materials and consumers goods recently compiled by the Commercial Intelligence Division of the United States Department of Commerce, include the following, which are available from the division at $1 for a list for any one country:—

Dyestuff manufacturers—Belgium.
Hospitals—Trinidad.
Ice plants—Honduras, Switzerland.
Paint manufacturers—Netherlands Indies.
Paraffin wax importers, dealers—London.
Soap manufacturers—Dominican Republic.
Tanneries—Brazil.

Oil, Paint and Drug Reporter, Vol. 154, No. 2, July 12, 1948. Published every Monday by Schnell Publishing Company, Inc., 59 John St., New York 7, N. Y., U. S. A. Subscription prices—United States and possessions, Cuba, Central America and South America, $5 a year; Canada and Newfoundland, $7; other countries, $10. Entered as second-class matter, January 16, 1884, at the New York Post Office, under the act of March 3, 1879. Copyright, 1948, by Schnell Publishing Company, Inc.

Britain Acts to Ban Branded Drug Items

American exporters of drugs and pharmaceuticals to the United Kingdom face the necessity of abandoning the use of trademarks to identify many of their products if they wish to continue selling in that market. Unless such action is taken, their products will be subject to a tax of 33⅓ percent of the wholesale value, payable by the purchaser.

This interpretation is being placed upon the new United Kingdom purchase act by representatives of the drug industry following receipt of the text of the new law in this country. The tax is understood to apply equally to products imported into the United Kingdom as well as to those produced in Britain.

The new law is said to be designed to implement the British socialized medicine program by making it virtually impossible, except through payment of a high tax, to provide self medication. Some drug industry spokesmen expressed the conviction that it was an indication of what might be expected if socialized medicine comes to this country.

Insofar as the proprietary industry in Britain is concerned, the new tax will have the effect of curtailing its output sharply, if not entirely, it is said. While a long list of products are exempted from the tax and the prohibition on the use of trade names, they cover only a portion of the products of the drug and pharmaceutical industry.

To be exempt from the tax itself, the products must be one or more of the substances described in the British Pharmacopoeia, the British Pharmaceutical Code, the Formulary, the National War Formulary, or any formulary approved by the Minister of Health. The products must be in a container and each container must be labeled to show the official name of the substance as used in these official documents or abbreviations.

Even though the product may meet all of these requirements, it will be subject to the tax if its trademark is used. In this respect, the law states:—

"Except so far as is required or permitted by the preceding provisions, and except so far as is required by virtue of any act (including any act of the Parliament of Northern Ireland), there must not be any writing or any trademark as defined in the Trade Marks Act of 1938, in the get-up of the goods or on the goods apart from any get-up.

"Liability to tax is incurred if any particulars * * * appear on the preparation itself, on anything packed with it, or on any container or its label, unless the additional particulars are required to be shown under other enactments, e. g., the therapeutic substance act, the dangerous drugs act, or the pharmacy and poisons act. Liability to tax is also incurred if trademarks, whether registered or not, are used."

NPVLA Selects Agency For Advertising Campaign

The special subcommittee of the industry advertising committee of the National Paint, Varnish and Lacquer Association has appointed the firm of Young & Rubicam, New York, as advertising agency for the industry's cooperative advertising campaign, it was announced today.

Foreign Sales Leads

Anyone interested in supplying the following inquiries with goods or information can get the full address of the inquirer by communicating—not by telephone, please—with OPD office.

Caustic soda, Recife, Brazil (CB-1); Salvador, Brazil (CB-5, agency); Sao Paulo, Brazil (CB-8, agency); Sao Luiz, Brazil (CB-9, agency).

Ceramic colors and glazes, Florence, Italy (CB-13).

Chemicals, Sao Paulo, Brazil (CB-3); Recife, Brazil (CB-4, agency); Sao Luiz, Brazil (CB-9, agency); Funami-gun, Japan (CB-10).

Drugs, Quito, Ecuador (CB-11).

Ink, printing, Quito, Ecuador (CB-11).

Lard, Ponta Grossa, Brazil (CB-6, agency); Habana, Cuba (CB-12).

Milk powder, Sao Paulo, Brazil (CB-8, agency).

Olive oil, Sao Paulo, Brazil (CB-7, agency).

Paint, Sao Paulo, Brazil (CB-2); Quito, Ecuador (CB-11).

Pharmaceutical products, Sao Paulo, Brazil (CB-3); Recife, Brazil (CB-4, agency); Ponta Grossa, Brazil (CB-6, agency); Quito, Ecuador (CB-11).

Potash, Salvador, Brazil (CB-5, agency).

Potassium nitrate, Recife, Brazil (CB-4, agency).

Resin, Salvador, Brazil (CB-5, agency); Sao Paulo, Brazil (CB-8, agency).

Soda ash, Salvador, Brazil (CB-5, agency); Sao Paulo, Brazil (CB-8, agency).

Sodium silicate, Sao Paulo, Brazil (CB-8, agency).

Soybean oil, Habana, Cuba (CB-12).

Vitamins, Sao Paulo, Brazil (CB-3).

Japan Developing Chemical Industry

In 1930-34, the basic period set by the Far Eastern Commission for the orientation of industrial operations under the plan of rehabilitation, Japan's biggest industry was textiles. There has been a shift, however, since the publication of the "Strike" report and the visit of the Draper mission, and light industries are being more emphasized for development. This is being reflected in the chemical industry which, in the base period, had less than 18 percent the number of plants of the textile industry, employed but 22 percent as many workers, and produced less than 47 percent of the value of the textile output. In 1946, the latest year covered by available data of the Ministry of Commerce and Industry, the chemical industry had almost 60 percent as many plants as the textile industry, employed 88 percent as many workers, and produced almost twice the value of the textile output.

The ministry's records for three years of special interest contain the following data on the size of the chemical industry and its relation in several respects to the industrial setup of the country:—

	1934	1941	1946
Plants ...	4,313	9,473	6,825
	(5.4%)	(6.9%)	(3%)
Employees	226,000	466,000	434,000
	(9.4%)	(10.3%)	(13.5%)
Production value (yen)	1,481,000,000	5,357,000,000	14,528,000,000
	(15.8%)	(18.5%)	(16.9%)

The current records of the ministry give the following data on the production of chemicals in Japan over the first four months of 1948:—

	Kilograms
Acetic acid	2,712,000
Acetone	199,000
Ammonia	76,722,000
Ammonium nitrate	3,161,060
Ammonium sulphate	267,712,000
Aniline	441,500
Benzol, pure	1,934,000
90% and motor	1,453,000
solvent	425,000
Bleaching powder	5,764,000
Butyl alcohol	85,000
Calcium carbide	84,223,000
Carbon black	754,470
Caustic soda, ammonia method	8,450,000
electrolytic	14,430,000
Chlorine, liquid	1,750,000
Chlorobenzol	271,200
Chrome yellow	521,070
Coaltar	45,166,000
Cresol	363,000
Dyestuffs, acid	80,206
basic	43,387
direct	351,553
mordant	69,937
naphthol	11,309
sulfovat	13,630
sulphide	454,929
vat	31,600
n.e.s.	33,645
Ethyl alcohol, kiloliters	7,465
Ethyl ether	495,000
Formaldehyde	1,717,000
Glycerin	313,000
Hydrochloric acid	12,633,000
Iron oxide black	13,343
red	200,097
Lime-nitrogen	58,470,000
Litharge	134,643
Lithopone	71,226
Methanol, kiloliters	2,259
Methyl chloride	49,533,000
Methylene chloride	1,473,000
Milori blue	133,786
Naphthalene, crude	2,250,000
Naphthol	75,800
Nitric acid	7,720,000
Nitrotoluol	106,500
Paints, insulating	562,528
laquer	312,361
oil	1,865,133
ship's-bottom	272,350
varnish	123,382
n.e.s.	673,559
Phenol	357,700
Phthalic anhydride	59,800
Potassium chloride	2,290,000
Pyroxylin	1,057,423
Red lead	142,745
Resin, phenol	664,619
urea	354,720
Soda ash	19,558,000
Sodium bicarbonate	1,778,000
Solvents	3,811,000
Sulphuric acid, contact	231,697,000
chamber	292,544,000
Superphosphate	319,717,000
Titanium white	61,025
Toluol	421,000
Ultramarine blue	11,791
Urea	380,000
Zinc oxide	1,722,137

Since the reopening of private participation in the foreign trade of Japan in September, 1947, up to May, this year, ex-

—Continued on page 65

Zanetti Gets New Post

Dr. Enrique Zanetti, professor of chemistry and director of chemical laboratories at Columbia University since 1939, has been appointed to the newly created post of associate provost in the university. He will continue his former duties.

Lion Oil Agronomist

Leroy Donald, who joined the Barrett Division of Allied Chemical & Dye Corporation in 1936 as district agriculturist, and was named chief agronomist in 1945, has become associated with Lion Oil Company, El Dorado, Ark., as chief agronomist. His duties will be to develop and promote more efficient methods of utilizing fertilizers, particularly nitrogen, as well as new and increased uses for plant foods.

Pfizer Shipping Citric Acid from Groton Plant

The first carload shipments of citric acid from the new Groton, Conn., plant of Chas. Pfizer & Co., New York, was made last week, according to John L. Smith, president of the company. Construction and rehabilitation of buildings at the site has been in progress since the plant was acquired from War Assets Administration in 1946. Production at the Groton plant augments operations at the main plant in Brooklyn.

Distillation Products Now Owned by Eastman Kodak

Eastman Kodak Company has purchased the interest of General Mills in Distillation Products, Inc., manufacturer of vitamins, high vacuum equipment and molecular stills used in the chemical industry. Distillation Products, formerly operated jointly by Eastman Kodak and General Mills, now becomes a wholly-owned subsidiary of the former concern.

OIT Establishes Code of Ethical Standards for Agents of Exporters

An expanded and intensified enforcement program to limit the practices of agents acting for exporters in their dealings with the Office of International Trade, and defining unlawful practices in connection with the use of official export control documents, was announced last Thursday by the OIT.

The program, which appears in Current Export Bulletin Number 467, is designed (1) to establish a code of ethical standards for exporters' agents appearing before OIT in connection with export control matters, and (2) to set up clear definitions of unlawful practices in the handling of export control documents, including trafficking, advertising, misrepresentation and similar misuses.

To assure ethical standards of conduct among license expeditors OIT will, beginning August 1, bar any person from representing exporters if he is found to indulge in such unethical practices as: (1) attempting to influence any actions of OIT, customs or postal officials through gifts, promises, bribes or any other means; (2) claiming special influence over any OIT employee and soliciting business on such basis; (3) charging a fee which is wholly contingent on the granting of an export license, and (4) intentionally violating export control regulations, including any false representation which would result in illegal export shipments.

Without specific OIT authorization, no change may be made in any export control document with respect to the named parties—the licensee, the ultimate consignee, or the intermediate consignee.

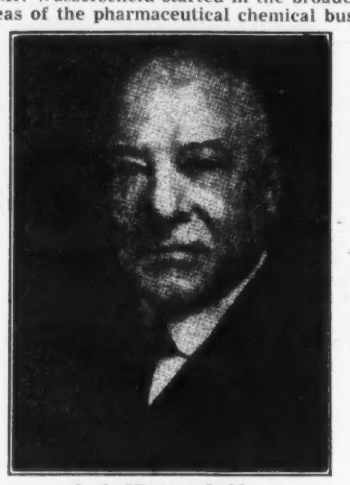
Under no circumstances may the holder of an export license advertise an offer to sell or transfer it. This prohibition holds true even if the advertisement makes the sale or transfer conditional on OIT approval of the new consignor, new consignee, or other change. Advertisements offering the sale or purchase of goods for export are banned if the advertised offer is conditioned on the seller's or

—Continued on page 41

A.A. Wasserscheid Retires From Mallinckrodt Posts

August A. Wasserscheid, vice-president of Mallinckrodt Chemical Works, St. Louis, and manager of its Eastern division in New York since 1913, has retired, as of July 1. His connection with the MCW organization began in 1893. He had been vice-president since 1931.

Mr. Wasserscheid started in the broader areas of the pharmaceutical chemical business with Dr. J. Jungmann in 1890. He was a graduate in pharmacy from the New York College of Pharmacy and subsequently was registered as a pharmacist. Still earlier, he had gone through the public schools and spent some time in the College of the City of New York. In more recent years he served as a trustee of the pharmacy school.



A. A. Wasserscheid

Throughout the drug trade, "Wassie" has long been synonymous with "Mallinckrodt." He has, however, had other interests—not of a business sort. He has been closely associated with various activities of the Metropolitan Museum of Art and he is one of the country's prominent amateur philatelists.

National Lead Shifts Titanium Div. Staff

National Lead Company, New York, has appointed M. B. Tipton assistant production manager of its titanium division. Mr. Tipton's former position as manager of the division's plant in Sayreville, N. J., has been assumed by L. L. Lewis, who was formerly plant manager in St. Louis, Mo.

Other personnel shifts in the division include the assumption of the managership at St. Louis by S. F. Beverage, and the appointment of E. A. Strassner as general superintendent in the same plant. Mr. Tipton has been associated with the organization since 1929, and has been assigned to the Sayreville plant since 1940.

Mr. Lewis joined the company in 1925 and has been manager of the St. Louis plant since last year. Mr. Beverage became associated with National Lead in 1934 as superintendent of the acid plant in St. Louis and was appointed its general superintendent in November of last year. Mr. Strassner, who was formerly process superintendent at St. Louis, joined the organization in 1933.

G.E. Appoints Smiddy Chemical Dept. Head

The General Electric Company, Pittsfield, Mass., has appointed Harold F. Smiddy general manager of its chemical department. Mr. Smiddy, who was formerly on the staff of the president of the company, will make his headquarters at the company's main offices in Pittsfield.

The company also announced that Raymond G. Schieleas has been appointed buyer for the resin and insulation materials division. Associated with the company since 1937, he formerly was a buyer in the purchasing department of the company's general office.

U.S. Aid to Greece Listed

United States aid to Greece under the relief program adopted last year amounted to $56,836,800 in food, industrial materials and services through the first quarter of this year, according to the latest report submitted to Congress by President Truman.

Among the advances were $4,093,630 for fertilizer, pesticides, etc.; $7,557,471 for petroleum products; $112,166 for nonferrous metals; $90,933 for nonmetallic minerals and manufactures; $102,678 for hides and leather; $321,102 for pharmaceuticals, drugs, medical supplies; $1,043,684 for chemicals, paints, dyes; and $190,954 for miscellaneous industrial raw materials.

Washington Talks It Over

By Ralph L. Cherry

A split appears to be developing in the oil industry over the proposed voluntary allocation plan under public law 395, and the situation is causing some concern over whether the plan will ever be finally adopted. The plan is still on Secretary of Interior Krug's desk awaiting his approval, and indications are that it is still favored by the Interior department.

However, Congressman Walter C. Ploeser of Missouri, chairman of the house small business committee, has written to both the Justice and the Interior department attacking the plan in its present form—and it is reported that the Justice department is quite sympathetic to his complaints and may not approve the plan without changes. All this may be propaganda put out by persons opposed to any allocation plan, but the fact remains that some of those in industry who have been working the hardest for a program describe the future of the plan as "doubtful."

Ploeser's recommendations follow pretty much the objections of the retailers and are the result of hearings he held recently where retailers aired their complaints for the second time—the first was before the Interior department at the hearing it was required to hold under the law. Ploeser's recommendations are:—(1) That a plan cannot be adopted under public law 395 without a formal finding by the Secretary of Interior that there is an actual scarcity of petroleum (he says the words in the present oil plan referred only to a prospective shortage); (2) a plan must provide for "priority allocation" and "inventory control," neither of which is provided for in the plan; (3) the plan should provide for allocation of crude oil to independent refiners; and (4) that in order to justify a suspension of the antitrust laws, some impartial agency should be designated to check the performance of the plan to make sure that no abuses are permitted.

Labor Department Troubles

President Truman's labor problems are mounting rapidly. Not only has he had to face one labor crisis after another in industry, but troubles are arising in his own official family.

A situation has developed within the Labor department that is almost without precedent. As matters now stand it is being forced to operate almost on its own. The vacancy created by the death of Secretary Louis Schwellenbach hasn't yet been filled. Undersecretary of Labor David A. Morse has just resigned to become Director-General of the International Labor Office, and the third man in official rank, Assistant Secretary John T. Kmetz also has quit.

Funding Was Forgotten

Congress did it again!

One of the lesser noted achievements of the session was the launching of a comprehensive program to settle the claims of the last war. Provision was made in a bill passed and signed by the President for setting up a War Claims Commission to make an exhaustive study of American claims against Germany and Japan and report its findings by next March 31.

The bill does two other things. It provides for the sale of the German and Japanese assets seized by the Alien Property Custodian and the payment of the proceeds into the Treasury. It also provides for adjudication and payment of certain claims of American civilians, former military personnel, employees of contract-

—Continued from page 36

Import

Many important basic raw materials, chemicals, and allied products are now available for shipment from various parts of the world to the U. S. A. If you are unable to obtain what you need in the U. S., send us complete particulars as we can undoubtedly be of assistance to you in securing what you require.

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Industrial Application Of Chemicals

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Cardanol

(An alcohol recovered from cashewnut shell liquid)

Chemical—Starting point (U.S. 2284369) in making celluiose acetate plasticizer by hydrogenation; esters and ethers useful as raw materials for resins.

2:6-Diaminoparabenzeneazogamma-picolinium Methochloride

Pharmaceutical — Water-soluble dye claimed (U.S. 2135293) as valuable for medicinal use.

Dicyclopentyl Succinate

Adhesives—Plasticizer (U.S. 2237739) in adhesive compositions containing natural or synthetic resins.

Ceramic—Plasticizer (U.S. 2237739) in compositions, containing natural or synthetic resins, used as coatings for protecting and decorating ceramic products.

Chemical—Plasticizer (U.S. 2237739) for natural and synthetic resins.

Electrical—Plasticizer (U.S. 2237739) in insulating compositions, containing natural or synthetic resins, used for covering wire and in making electrical machinery and equipment.

Glass—Plasticizer (U.S. 2237739) in compositions, containing natural or synthetic resins, used as coatings for protecting and decorating glassware.

Leather—Plasticizer (U.S. 2237739) in compositions, containing natural or synthetic resins, used as coatings for protecting and decorating leathers and leather goods.

Metal-Fabricating — Plasticizer (U.S. 2237739) in coating compositions, containing natural or synthetic resins, used for protecting and decorating metallic articles.

Miscellaneous—Plasticizer (U.S. 2237-739) in coating compositions, containing natural or synthetic resins, used for protecting and decorating various kinds of articles.

Paint, Varnish, and Lacquer—Plasticizer (U.S. 2237739) in paints, varnishes, lacquers, enamels, and dopes containing natural or synthetic resins.

Paper—Plasticizer (U.S. 2237739) in compositions, containing natural or synthetic resins, used for protecting and decorating articles made of paper or pulp.

Plastics—Plasticizer (U.S. 2237739) in making laminated or molded articles from natural or synthetic resins and other materials; plastic compositions from natural or synthetic resins and other materials.

Rubber—Plasticizer (U.S. 2237739) in coating compositions, containing natural or synthetic resins, used for decorating and protecting rubber goods.

Stone—Plasticizer (U.S. 2237739) in coating compositions, containing natural or synthetic resins, used for decorating and protecting artificial and natural stone.

Textile—Plasticizer (U.S. 2237739) in compositions, containing natural or synthetic resins, used in the manufacture of coated fabrics.

Wood—Plasticizer (U.S. 2237739) in compositions, containing natural or synthetic resins, used as protective and decorative coatings on woodwork and for many filling and repairing purposes on wood.

Diethyl Itaconate

Resins — Light-stabilizing agent (U.S. 2313757) for vinylidene chloride copolymers.

Dimethylcyclohexane

Chemical—Organic compound, boiling at 120°C., which is a water-white liquid completely miscible with most common solvents, consists of a mixture of meta-, para-, and ortho-, isomers; has a freezing point below —65°C.; is a hydrogenated xylene, but in its chemical behavior resembles the aliphatic hydrocarbons more than the aromatic; has a mild odor, extremely low water solubility.

Diphenylheptadecyl Ketone

Oils, Fats, and Waxes—Waxy synthetic compound suggested for investigation as replacer of natural waxes in some industrial applications, possibly in polishing and cleaning compositions; as a dielectric material; or as a waterproofing agent.

Inorganic Chemicals Output: 1947

Preliminary statistics on the production of a number of specified inorganic chemicals during 1947 and final data on their production in 1946 have been issued by the Bureau of the Census, Department of Commerce. The bureau's figures are for primary production, including quantities produced for further processing, for intra-company transfer and for sale. In some cases data are included for material produced in process as an intermediate to the end product, and figures shown do not always reflect the amount of material entering the market. The statistics are as follows:—

		1947 total	1946 total
Ammonia, synthetic anhydrous	Short tons.	1,117,212	726,537
Ammonium nitrate, original solution, total (100% NH_4NO_3)	Short tons.	1,017,792	724,999
Ammonium sulphate, synthetic (technical)[1]	Pounds.	394,053,000	313,306,600
Calcium arsenate (100% $Ca_3(AsO_4)_2$)	Pounds.	47,187,000	35,382,000
Calcium carbide (commercial)	Short tons.	603,337	570,138
Calcium phosphate—			
Monobasic (100% $CaH_4(PO_4)_2$)	Pounds.	71,739,000	74,936,000
Dibasic (100% $CaHPO_4$)	Pounds.	77,537,000	71,547,000
Carbon, activated, decolorizing and water purification	Pounds.	71,097,000	65,102,000
Carbon dioxide—			
Liquid and gas	Pounds.	245,886,000	217,241,000
Solid (dry ice)	Pounds.	723,165,000	644,699,000
Chlorine, gas[2]	Short tons.	1,446,865	1,163,123
Chrome green (C.P.)	Pounds.	13,932,000	17,871,000
Chrome yellow and orange (C.P.)	Pounds.	48,972,000	43,122,000
Hydrochloric acid (100% HCl)	Short tons.	425,105	341,530
Hydrofluoric acid, anhydrous and technical (100% H_2F_2)	Pounds.	55,122,000	42,521,000
Hydrogen	Cu. ft.	21,933,000,000	17,605,000,000
Lead arsenate (acid and basic)	Pounds.	30,157,000	56,667,000
Methanol (natural) (100% CH_3OH)	Gallons.	2,325,000	2,305,000
Molybdate chrome orange (C.P.)	Pounds.	4,456,000	4,893,000
Nitric acid (100% HNO_3)	Short tons.	1,150,030	573,827
Oxygen	Cu. ft.	13,790,000,000	10,863,000,000
Phosphoric acid—			
Total (50% H_3PO_4)	Short tons.	1,052,414	854,615
From phosphorus (50% H_3PO_4)	Short tons.	555,176	440,056
From phosphate rock (50% H_3PO_4)	Short tons.	462,238	454,559
Silver nitrate (100% $AgNO_3$)	Ounces.	40,232,000,000	47,857,000,000
Soda ash (commercial sodium carbonate)—			
Ammonia soda process—			
Total wet and dry (98-100% Na_2CO_3)[3]	Short tons.	4,519,144	4,264,231
Finished light (98-100% Na_2CO_3)[4]	Short tons.	2,154,285	2,079,559
Finished dense (98-100% Na_2CO_3)	Short tons.	1,641,452	1,348,746
Natural (Na_2CO_3 equivalent)[5]	Short tons.	231,132	203,411
Sodium bicarbonate (refined) (100% $NaHCO_3$)	Short tons.	181,145	183,915
Sodium bichromate and chromate	Short tons.	87,374	85,490
Sodium hydroxide (caustic soda)[6]—			
Electrolytic process—			
Liquid (100% NaOH)	Short tons.	1,555,935	1,129,956
Solid (100% NaOH)	Short tons.	247,257	182,852
Lime-soda process—			
Liquid (100% NaOH)	Short tons.	747,247	742,972
Solid (100% NaOH)	Short tons.	244,992	226,519
Sodium phosphate—			
Monobasic (100% NaH_2PO_4)	Short tons.	14,214	11,961
Dibasic (100% Na_2HPO_4)	Short tons.	83,340	59,528
Tribasic (100% Na_3PO_4)	Short tons.	89,635	94,853
Meta (100% $NaPO_3$)	Short tons.	30,672	24,053
Tetra (100% $Na_4P_2O_7$)	Short tons.	56,169	52,149
Sodium silicate (soluble silicate glass, liquid and solid) (anhydrous)	Short tons.	476,747	412,357
Sodium sulphate—			
Anhydrous (refined) (100% Na_2SO_4)	Short tons.	135,036	122,573
Glauber's salt (100% $Na_2SO_4 \cdot 10H_2O$)[5]	Short tons.	197,963	167,153
Salt cake (crude) (commercial)[5]	Short tons.	627,351	527,746
Sulphuric acid—			
Gross (100% H_2SO_4)[7 8]	Short tons.	10,574,941	9,262,659
Chamber process (100% H_2SO_4)	Short tons.	3,325,337	3,004,630
Contact process (gross) (100% H_2SO_4)[9]	Short tons.	7,249,054	6,198,279
Contact process (new) (100% H_2SO_4)[7]	Short tons.	6,632,711	5,653,875
Fortified spent acid (100% H_2SO_4)	Short tons.	616,343	544,404
Zinc yellow (zinc chromate) (C.P.)	Short tons.	3,378	.....

[1] Excludes by-product coke oven production which is published by the Bureau of Mines in the Monthly Coke Report.
[2] Total production including quantities liquefied for use, storage or shipment.
[3] Includes quantities used in manufacturing caustic soda and sodium carbonate and quantities processed to finished light and finished dense soda ash.
[4] Excludes quantities converted to finished dense soda ash.
[5] Collected in cooperation with Bureau of Mines.
[6] Liquid production figures include quantities evaporated to solid caustic.
[7] Includes sulphuric acid of oleum grade.
[8] Includes by-product operations of six smelters reporting to the Bureau of Mines.

Association Meeting Dates

Agricultural Insecticide and Fungicide Association, Essex and Sussex hotel, Spring Lake, N. J., September 7-9.

American Association of Textile Chemists and Colorists, Augusta, Ga., October 21-23.

American Chemical Society, national meeting, eastern session, Washington, August 30-September 3; midwest session, St. Louis, Mo., September 6-10; western session, Portland, Ore., September 13-17.

American Institute of Chemical Engineers, Pennsylvania hotel, New York, November 7-10.

American Mining Congress, San Francisco, September 20-25.

American Oil Chemists Society, Pennsylvania hotel, New York, November 15-18.

American Pharmaceutical Association, Fairmont hotel, San Francisco, Calif., August 8-14.

American Society of Agronomy, division of applied agronomy, Fort Collins, Colo., August 24-27.

American Society of Hospital Pharmacists, San Francisco, August 8.

American Soybean Association, Peabody hotel, Memphis, Tenn., September 13-15.

Association of Consulting Chemists and Chemical Engineers, Sheraton hotel, New York, October 26.

Drug, Chemical and Allied Trades Section of New York Board of Trade, Shawnee Inn, Shawnee, Pa., September 23-25.

Federal Wholesale Druggists Association, Haddon Hall, Atlantic City, N. J., October 6-8.

Federation of Paint and Varnish Production Clubs, Congress hotel, Chicago, November 4-6.

International Congress of Industrial Chemistry, Brussels, Belgium, September.

National Association of Insecticide and Disinfectant Manufacturers, New Yorker hotel, New York, December 6-7.

National Paint, Varnish and Lacquer Association, Congress hotel, Chicago, November 8-10.

National Petroleum Association, Traymore hotel, Atlantic City, N. J., September 15-17.

National Plastics Exhibition, Grand Central Palace, New York, September 27-October 2.

National Wholesale Druggists Association, Palmer House, Chicago, October 17-20.

Society of Chemical Industry, Edinburgh, Scotland, July 12-17.

Tanners Council of America, Leather Show, Waldorf-Astoria hotel, New York, September 14-15.

Atom Research Program Gets Additional Funds

The Bethlehem Steel Corporation has invested $100,000 in the University of Chicago's multi-million dollar program of atomic and metal research, it was announced last Thursday. The company's election to membership in the university's Institute of Metals brings to thirteen the number of industrial organizations supporting the industry-education research program being carried on through the Institute of Metals, Institute of Nuclear Studies and Institute of Radiobiology and Biophysics, all under the university's direction.

PMA Promotes Taylor

Appointment of Leon B. Taylor as director of the price support and foreign supply branch of the Production and Marketing Administration, Department of Agriculture, was announced last Thursday. He succeeds Frederick B. Northrup, who resigned to become secretary general of the International Emergency Food Committee. Mr. Taylor, who has been assistant director of the branch, assumed his duties immediately. F. Marion Rhodes will serve as assistant director.

Postal Regulations Eased on Pesticides

Postal regulations covering the transmission of poisons through the domestic mails were modified last week by the Post Office Department to incorporate a policy that has been followed by the department with reference to preparations containing strychnine.

Other regulations, covering mailing of safety matches, also were modified to provide more specific standards for the containers of matches. The changes relate only to the domestic mails, as no matches of any kind can be accepted for mailing to a foreign country or between continental United States and overseas possessions.

Insecticides, fungicides, and germicides not outwardly or of their own force dangerous or injurious to life, health, or property, and not in themselves unmailable are admitted to the mails for transmission, in the domestic mails when securely packed for safe transmission, provided that the container is plainly labeled to show its contents, is marked "Poisonous Composition," and bears the label or superscription of the manufacturer.

The amended regulation states that "poisonous preparations, such as ratifices, for the extermination of rodents and other destructive mammals are not included in the above classification, and are not mailable.

"However, poisoned seed used as mouse bait and similar preparations, containing not more than 0.75 percent strychnine sulphate and not containing other non-mailable substances, are mailable in quantities not to exceed twenty-four ounces in any one parcel . . . provided the inside containers are labeled 'Poison' with skull and crossbones and show antidote for first aid treatment.

"Preparations containing 1.5 percent of strychnine sulphate, which is the maximum percentage mailable, are limited to four ounces in one parcel. Parcels containing these preparations must be marked 'Poison'."

Armour Foundation Adds Hedrick to Staff

The Armour Research Foundation of the Illinois Institute of Technology, Chicago, has named Dr. Glen H. Hedrick, supervisor of the organic section of its department of chemistry and chemical engineering. Dr. Hedrick was formerly a group leader at Publicker Industries, Inc., Philadelphia.

Other additions to the staff of the department include the appointment of Solomon W. Schwartzman as an associate biochemist. He formerly worked on the development of enzyme isolation at Vita-Zyme Laboratories, Chicago. Dr. Lewis H. D. Fraser, who has been appointed chemical engineer at the foundation, formerly held a similar position with the Owens-Illinois Glass Company.

Packaging Short Course In Chicago October 4-7

The Industrial Packaging Engineers Association of America and the extension division of the University of Illinois will conduct a short course in packaging and materials handling at the Sherman hotel, Chicago, on October 4 to 7.

A program of talks on major aspects of physical distribution problems, and discussions of various phases of packaging and handling problems is being prepared for the course. On October 5 to 7 the course will be running concurrently with the Industrial Packaging and Materials Handling Exposition, and it is planned to correlate all sessions of the course with product exhibits.

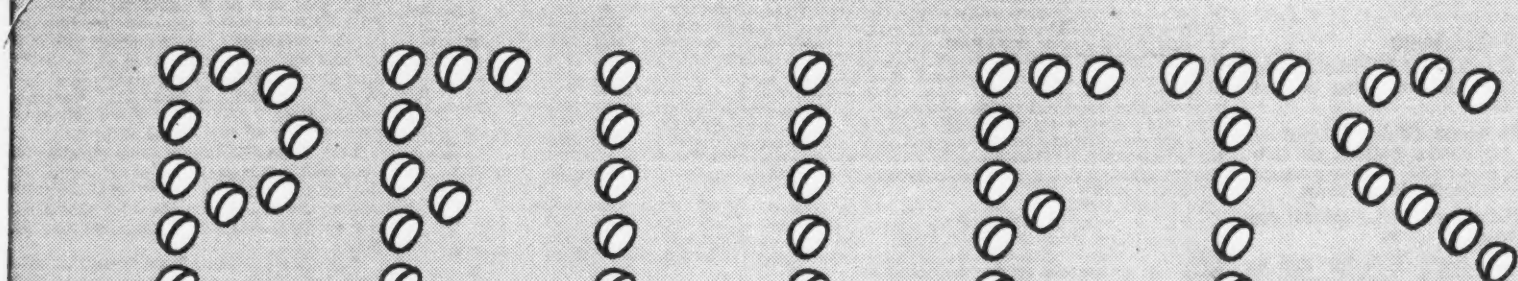
Materials Handling Show Planned in Boston Oct. 5-7

A New England Materials Handling Exposition will be held in Mechanics Hall, Boston, Mass., on October 5 to 7. The exposition is under the management of R. Kennedy Hanson, secretary-treasurer of the National Materials Handling Institute, and chairman of the management committee is Normal L. Cahners.

ECA Expands Staff

Walter J. Levy, of New York, was appointed last Thursday to head the petroleum, oil and lubricant office in the Economic Cooperation Administration. Mr. Levy was in charge of petroleum research for the Department of State from 1945 to March of this year, when he became an economic advisor to Socony-Vacuum Oil Company, New York.

• Easy to weigh • easy to pour
• free from dust • extremely pure



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Current Market Quotations

Chemicals and Related Materials

July 9, 1948

Unless otherwise indicated, listings are first-hand quotations on large lots, f.o.b. New York. Changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4.

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A

Acacia (see Gum, arabic).

Acetaldehyde, 99%, dms., 55 gals., works..lb. .11½- .12
5 and 10 gals., works.....lb. .12 - .16
tanks, works .....lb. .09½- .10½

Acetaldol (see Aldol).

Acetamide, CP, fib. dms.....lb. .65 - .75
tech., fib. dms.....lb. .58 - .63

Acetanilide, tech., bbls., c.l.....lb. .22 - —
l.c.l. .....lb. .23 - .26
kgs. .....lb. .28 - —

USP, bbls., 2,000-lb. lots.....lb. .40 - .50
smaller lots .....lb. .41 - .50

Acetic anhydride, dms., c.l., frt. all. E. lb. .13½- —
l.c.l., frt. alld. E.....lb. .15 - —
tanks frt. alld. E.....lb. .12 - —

Acetoacetanilide, bbls., works.....lb. .67½- —
fib. dms., works.....lb. .65 - —

Acetoacetorthotoluidide, bbls., works..lb. .90 - —
fib. dms., works.....lb. .69 - —

Acetoacetorthochloroanilide, bbls., works lb. 1.15 - —
fib. dms., works.....lb. 1.15 - —

Acetone, CP, dms., c.l., dlvd.....lb. .10 - —
l.c.l., dlvd. .....lb. .11 - —
tanks, dlvd. .....lb. .08½- —

Acetonitrile, dms., c.l., works.....lb. .45 - —
l.c.l., works .....lb. .50 - —
smaller containers, works.....lb. .55 - .60

Acetophenetidin, USP, bbls., works, frt. equald..lb. 1.10 - 1.20

Acetophenone, cns., dms.....lb. 1.50 - 1.85

Acetyl chloride, cbys., works.....lb. .55 - .60

Acetyltributyl citrate, dms.....lb. .43 - .45
smaller pkgs. .....lb. .48 - .54

Acetyltriethyl citrate, dms.....lb. .36 - .38
smaller pkgs. .....lb. .41 - .47

Acid, abietic, dms., c.l., works.....lb. .07½- —

Acetic, com'l or redist., 28%, bbls... 100 lbs. 3.78 - 4.03
56%, bbls. .....100 lbs. 7.56 - 7.81
70%, bbls.....100 lbs. 9.45 - 9.70
80%, bbls.....100 lbs. 10.80 - 11.05
glacial, synthetic, C.P., dms., works 100 lbs. 13.70 - 14.00
USP, dms., works.....100 lbs. 11.70 - 12.00
tech., dms., c.l., works..100 lbs. 10.07 - 11.00
tanks, works .....100 lbs. 8.00 - 8.62

Acetic acid price ranges above are c.l. and l.c.l. quantities. Carboys and cases are 50c. per 100 lbs. higher.

Acetic anhydride (see Acetic anhydride above).

Acetylsalicylic, USP, special, bbls., makers, primary distrib., point of ship't, 100-lb. lots..lb. .50 - —
smaller lots.....lb. .51 - .64

standard, fine, cryst., gran. (30-40 mesh) powd. (80 mesh), bbls., same basis, lb. .46 - .50

Freight equalized, shipment identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Aminoacetic, NF, bbls., frt. adjusted. lb. 1.50 - 1.75

Anthranilic, resub., bbls.....lb. 2.10 - —
tech., bbls. .....lb. 1.05 - 1.10

Arsenous, tech. (see Arsenic, white).

USP, powd., dms., kgs.....lb. .20 - .22

Ascorbic, USP, dms., 500-kilo lots .. kilo 21.50 - —
25-50 kilo lots.....kilo. 23.00 - —
10-kilo lots.....kilo. 25.35 - —
5-kilo lots.....kilo. 27.70 - —
bots., kilo lots.....kilo. 26.41 - —
500 grams.....kilo. 27.47 - —

Battery, cbys., c.l., E. works..100 lbs. 1.60 - 1.75
l.c.l., E. works.....100 lbs. 2.05 - 2.75

Benzoic, tech., bbls., 4,000 lbs. or more..lb. .42 - —
1,000 to 3,900 lbs.....lb. .44 - —
900 lbs. or less.....lb. .47 - —

USP, bbls., 4,000 lbs. up.....lb. .54 - —
1,000 to 3,900 lbs.....lb. .55 - —
900 lbs. or less.....lb. .58 - .59

dms., 4,000 lbs. up.....lb. .55 - .56
1,000 to 3,900 lbs.....lb. .56 - .57
900 lbs. or less.....lb. .58 - .59

Betanaphthole, bbls., works....lb. 1.25 - 1.43

Boric, tech., 99.5%, cryst., paper bgs., c.l., frt. split.....ton 124.00 - —
ton lots, ex whse.....ton. 144.80 - —
less than ton lots, ex whse., ton. 149.70 - —

powd., paper bgs., c.l., frt. split..ton. 104.00 - —
ton lots, ex whse, N. Y. or Chi..ton. 124.80 -127.00
less ton lots, same basis..ton. 129.70 -130.00
bbls., c.l., frt. split.....ton. 124.00 - —
ton lots, ex whse, N. Y. or Chi..ton. 144.70 -145.00
less car lots, same basis..ton. 149.50 -150.00
gran., bulk .....ton. 95.50 - —
paper bgs., c.l., frt. split..ton 99.00 - —
ton lots, ex whse., N. Y. or Chi..ton. 119.70 -120.00
less ton lots, same basis..ton. 124.80 -125.00
bbls., c.l., frt. split.....ton. 119.00 - —
ton lots, ex whse., N. Y. or Chi..ton. 139.70 -140.00
less ton lots, same basis ton 144.70 -145.00
USP $25 per ton higher.

Broener's, bbls. .....lb. 1.34 - —

Butyric, 99%, dms., c.l., works..lb. .34 - —
l.c.l., works .....lb. .35 - —
tankcars, works .....lb. .33 - —

Cacodylic, bots. .....lb. 12.00 - 13.00

Camphoric, natural, dms.....lb. 6.00 - 6.75
synth., dms. .....lb. 5.50 - 6.00

Capric, tech., dms.....lb. .50 - .50½

Caprylic, 99%, dms.....lb. .50 - .50½

Castor oil, split, dms.....lb. .35½- .36¼

Chlorosulphonic, dms., c.l., works..lb. .03 - —
l.c.l., works.....lb. .03½- .04½
tanks, works.....lb. .02½- —

Acid, chromic, 99½-99¾%, dms., c.l., works..lb. .23½- —
l.c.l., works.....lb. .24 - .25
Cinnamic, refd., bots.....lb. 3.00 - 4.00

Citric, anhyd., gran., fine gran., bbls. lb. .25 - —
dms., c.l. .....lb. .24 - —
10,000 lbs., 1 ship't.....lb. .24½- —
kgs. .....lb. .25½- —

Anhydrous citric acid powder, ½c. per lb. higher.

USP, cryst., bbls., c.l.....lb. .25 - —
10,000 lbs., 1 ship't.....lb. .25½- —
smaller lots.....lb. .26 - —
kgs. .....lb. .26½- —

gran., fine gran., bbls., c.l.....lb. .22 - —
10,000 lbs., 1 ship't.....lb. .22½- —
smaller lots.....lb. .23 - —
kgs. .....lb. .23½- —

USP citric acid powder ½c. per lb. higher.

Cleve's, bbls., mixed.....lb. .61 - .65
Coconut oil, dist., dms.....lb. .32 - .34
Corn oil, s.d., dms.....lb. .20¾- .21¾
Cottonseed oil, dist., dms.....lb. .20¾- .21¾

Cresylic, dom., coaltar, high-boil 50% (210°-215°), low boil 50% (204°-206°), and special blends, dms., c.l., works, frt. equald. gal. 1.61 - —
l.c.l., same basis.....gal. 1.64 - —
tanks, same basis.....gal. 1.56 - —

Petroleum, 185° C to 205° C, non-ref. dms., c.l., San Francisco and Los Angeles..gal. 1.005 - —
l.c.l., same basis.....gal. 1.025 - 1.045
tanks, same basis.....gal. .925 - —
190° C to 220° C, non-ref. dms., c.l., San Francisco and Los Angeles..gal. .93 - —
l.c.l., same basis.....gal. .95 - .97
tanks, same basis.....gal. .85 - —
210° C to 240° C, non-ref. dms., c.l., San Francisco and Los Angeles..gal. .745 - —
l.c.l., same basis.....gal. .765 - .785
tanks, same basis.....gal. .665 - —
235° C to 271° C, non-ref. dms., c.l., San Francisco and Los Angeles..gal. .62 - —
l.c.l., same basis.....gal. .72 - .74
tanks, same basis.....gal. .62 - —

Crotonic, bbls., Canadian, works..lb. .35 - —

Dichlorophenoxyacetic, fib. dms., c.l., works, frt. equald..lb. .75 - —
l.c.l., same basis.....lb. .83 - .90

Diethylbarbituric (see Barbital)

F, bbls., works.....lb. 1.73 - 1.73

Folic, bots. .....gram. 2.00 - —

Formic, 85%, cbys., c.l., works....lb. .13½- —
l.c.l., works .....lb. .14 - .15
90%, cbys., c.l., works.....lb. .14 - —
l.c.l., works .....lb. .14½- .15

Fumaric, tech., bbls., dms.....lb. .30 - .31

Gallic, NF V, bbls., 1,000-lb. lots..lb. 1.40 - —
smaller lots .....lb. 1.43 - 1.45
technical, bbls., 1,000-lb. lots....lb. 1.23 - —
smaller lots .....lb. 1.26 - 1.28

Gamma, bbls. .....lb. 1.13 - 1.20

Gluconic, tech., 50%, bots.....lb. .28 - .31
dms. .....lb. .14 - —
kgs. .....lb. .16 - —

Glycolic (see Acid, hydroxyacetic).

H, 100% basis, bbls., works.....lb. .66 - —

Hydriodic, 45-47%, cbys.....lb. 2.52 - 2.55
57%, cbys. .....lb. 2.85 - 2.89

Hydrobromic, medicinal, 48%, cbys., dlvd. E..lb. .48 - —
tech., 48%, cbys., dlvd. E.....lb. .45 - —
34%, cbys., dlvd. E.....lb. .35 - .37

Hydrochloric (see Acid, muriatic).

Hydrocyanic, cyls., works.....lb. .80 - 1.00
dilute, NF, 2%, 5-lb. bots.....lb. .30 - .40

Hydrofluoric, anhyd., cyls., works..lb. .19 - .19½
tanks, works .....lb. .16 - —
30%, steel dms., works.....lb. .09 - —
48%, steel dms., works.....lb. .12 - —
52%, steel dms., works.....lb. .12½- —
60%, steel dms., works.....lb. .13½- —
70%, steel dms., works.....lb. .15 - —

Hydrofluosilicic, 30-35%, bbls.....lb. .08 - .09

Hydroxyacetic, tech., 70%, bbls., non-return., Phila..lb. .084 - —
tanks, Belle, W. Va., 100% basis. lb. .085 - —

Hypophosphorous, USP, dms.....lb. .75 - .77

J, bbls., works, 50% basis.....lb. 2.64 - 2.68

L, bbls., works.....lb. .80 - .95

Lactic, edible, 50%, bbls., 20 or more. lb. .18 - —
smaller lots.....lb. .18½- .19
80% bbls., 5 or less.....lb. .3320- .3370
plastic grade, 50%, bbls., 20 or more. lb. .19½- —
10 or less.....lb. .20¾- —
80% bbls., 5 or less.....lb. .3495 - .3545
tech., 22%, bbls., c.l., works..100 lbs. 5.80 - —
l.c.l., works .....100 lbs. 6.20 - —
cbys., works.....100 lbs. 6.70 - —
44% bbls., c.l., works.....100 lbs. 8.95 - —
l.c.l., bbls., works.....100 lbs. 9.95 - —
cbys., works.....100 lbs. 11.85 - —

NF, 85%, cbys.....lb. .69 - .72

Laurent's, bbls. .....lb. .80 - —

Lauric, dist., 85-90%, dms.....lb. .40 - .40½
99%, dms.....lb. .35 - .35½

Linseed oil, reg. dist., dms.....lb. .3220- .3270
water white, dms.....lb. .3520- .3570

Maleic, powd., dms. Anhydride (see M).....lb. .26 - .30

Maleic, powd., bbls.....lb. .30 - .31

Mandelic, NF, dms., 1,000-lb. lots..lb. 1.85 - —
smaller lots.....lb. 1.90 - 2.10

Mixed, tanks, nitric unit.....lb. .05 - .06
sulphuric unit .....lb. .0085- .009

Molybdic, kgs., works.....lb. .95 - 1.10

Monochloroacetic, purified, flake, 99% dms..lb. .26 - .27
tech., flake, 96-97%, bbls.....lb. .21¼- .22½

Monosulphonic, bbls. .....lb. 1.50 - —

Acid, muriatic, 18°, cbys., c.l., E. works..100 lbs. 1.65 - —
l.c.l., E. works.....100 lbs. 2.05 - 2.75
tanks, E. works.....ton. 18.00 - 18.20

20°, cbys., c.l., E. works....100 lbs. 1.90 - —
tanks, E. works.....ton. 19.00 - —

22°, cbys. c.l., E. works....100 lbs. 2.45 - —
tanks, E. works.....ton. 21.00 - —

CP, USP, consumers, cbys., extra. lb. .08 - —
6-lb. bots., extra.....lb. .10 - —
dealers, cbys., extra.....lb. .06½- —
6-lb bots., extra.....lb. .08½- —

Myristic, dist., dms.....lb. .45 Nom.

Naphthenic, 220-230 acidity, dms., works..lb. .15 - —
tanks, works .....lb. .12 - —
230-240 acidity, dms., works.....lb. .20 - —
tanks, works .....lb. .17 - —

Naphthol(1)-4-sulphonic (see Acid, Neville and Winther's)

Naphthol(1)-5-sulphonic (see Acid L).

Naphthol(1)-5-sulphonic,8-amino (see Acid, S).

Naphthol(1)-3,6, disulphonic,8-amino (see Acid, H).

Naphthol(2)-6,8-disulphonic (see Acid, Gamma).
(2)-7-Sulphonic,2-amino (see Acid J).

Naphtholsulphonic, mixed (see Acid, Cleve's, mixed).

Naphthylaminet(1)-5-sulphonic (see Acid, Laurent's).
(2)-6-sulphonic (see Acid, Broener's).
(2)-7-sulphonic (see Acid F).
(2)-1-sulphonic (see Acid, Tobias)

Neville and Winthers, dms.....lb. .80 - .84

Nicotinic, USP, dms., works....kilo. 7.00 - 7.30

Nicotinic amide (see Nicotinamide).

Nitric, 36° cbys., c.l. E. works... 100 lbs. 5.00 - —
l.c.l., E. works.....100 lbs. 5.40 - 6.10

38°, cbys., c.l., E. works....100 lbs. 5.50 - —
l.c.l., E. works.....100 lbs. 5.90 - 6.65

40°, cbys., c.l., E. works...100 lbs. 6.00 - 6.50
l.c.l., E. works.....100 lbs. 6.40 - 7.10

42°, cbys., c.l., E. works....100 lbs. 6.50 - 7.00
l.c.l., E. works.....100 lbs. 6.90 - 7.60

CP, USP, consumers, cbys., extra. lb. .13 - —
7-lb. bots., cs., extra.....lb. .15 - —
dealers, cbys., extra.....lb. .11½- —
7-lb. bots., cs., extra.....lb. .13½- —

Oleic (see Oil, red)

Oleum (see Acid, sulphuric, fuming).

Orthocresotinic, dms., c.l., works..lb. .67 - —
l.c.l. works .....lb. .69 - —

Oxalic, bbls., c.l., works.....lb. .13¾- .14½
10,000 lbs., works.....lb. .14½- .15
smaller lots, works.....lb. .15 - .15¾

Palm oil, white, dist., dms.....lb. .21¼- .21⅝

Para-aminobenzoic, purified, dms., works..lb. 4.00 - —
technical, bbls., works.....lb. 1.70 - —

Paramethylphenylcinchonic (see Neocinchophen).

Paranitrobenzoic, cns. .....lb .80 - —

Paratoluidinemetasulphonic, bbls., wks. lb. .92 - .93

Peanut oil, s.d., dms.....lb. .20⅝ Nom.

Perchloric, 60%, cbys. works.....lb. .58 - .62
70-72%, cbys., works.....lb. .61 - .66

Phenylacetic, bots.....lb. 1.51 - 1.75

Phenylglycollic (see Cinchophen).

Phenylglycollic (see Acid, mandelic).

Phosphoric, food grade, 50%, bbls., c.l., works, frt. equald..... 100 lbs. 4.50 - —
l.c.l., same basis.....100 lbs. 5.25 - 6.00
cbys., c.l., works, frt. equald.. 100 lbs. 5.60 - —
l.c.l., works, frt. alld.100 lbs. 6.00 - 7.50

75%, bbls., c.l., works, frt. equald..100 lbs. 5.75 - —
l.c.l. .....lb. .11½- .13
dilute, 10%, cbys., dms.....lb. .07 - .07½
cbys., c.l., works, frt. equald. 100 lbs. 6.10 - —
l.c.l., works, frt. alld..... 100 lbs. 8.00 - 9.00
tanks, works, frt. equald.... 100 lbs. 4.00 - —

NF, 85%, cbys., c.l.....lb. .10½- —

Picramic, bgs.....lb. .65 - .70

Picric, tech., bbls.....lb. .30 - .31

USP, bbls.....lb. .35 - .36

Propionic, nat., dms., works.....lb. .18 - —
tanks, works.....lb. .17 - —
synth., pure, dms., works.....lb. .22 - —
tanks, works.....lb. .21 - —

Pyrogallic, tech., bbls.....lb. No prices

N.F., cryst., dms.....lb. 2.80 - 3.03

resub., dms.....lb. 3.30 - 3.45

Pyroligneous, bbls., incl., l.c.l., ex whse..gal. .43 - —

Ricinoleate (see Acid, castor oil, sp'd).

S, bbls., works.....lb. 2.75 - 2.79

Salicylic, tech., bbls., c.l.....lb. .31 - —
smaller lots.....lb. .38 - —

USP, bbls., c.l.....lb. .40 - —
smaller lots.....lb. .47 - —

Sebacic, tech., dms., c.l., works..lb. .68 - —
l.c.l., works .....lb. .70 - .75

Soybean oil, s.d., c.l., works.....lb. .20⅝- .21⅜

Stearic, double pressed, bgs.....lb. .32½- .33
single pressed, bgs.....lb. .32 - .32½
triple pressed, bgs.....lb .34¾- .35¼

Succinic, bbls.....lb. .87 - .90

Sulphonilic, CP, bots., works.....lb. 1.60 - 1.63
tech., dms., works.....lb. .17 - —

Sulphuric, 60°, cbys., c.l., E. works 100 lbs. 1.10 - —
l.c.l., E. works.....100 lbs. 1.80 - 2.50
tanks, E. works.....ton. 12.25 - —

66°, cbys., c.l., E. works....100 lbs. 1.65 - —
l.c.l., E. works.....100 lbs. 2.05 - 2.75
tanks, E. works.....ton. 15.00 - —

98%, tanks, E. works.....ton. 16.00 - —

CP, N.F., consumers cbys., extra..lb. .08 - —
9-lb. bots., cs., extra.....lb. .10 - —
dealers, cbys., extra.....lb. .06½- —
9-lb. bots., cs., extra.....lb. .08½- —

fuming, 20%, tanks, E. works..ton. 18.00 - —

Tallow, dist., dms.....lb. .23¼- .24¼

Acid, tannic, tech., 60-62%, dms.....lb. .68 - .69
70-72%, dms. .....lb. .80 - .85
75-76%, dms. .....lb. .80 - .90

USP, fluffy, bbls., 1,000-lb. lots..lb. 1.43 - —
smaller lots.....lb. 1.47 - 1.55
powder, bbls., 1,000-lb. lots....lb. 1.35 - —
smaller lots .....lb. 1.30 - 1.50

Tartaric, USP, bbls., 10,000 lbs., 1 ship't..lb. .41½- —
smaller lots.....lb. .42 - —
dms. .....lb. .41 - .45
kgs. .....lb. .42½- —

Thioglycolic, refined, bbls., cbys., basis 100%..lb. 1.95 - 2.00
tech., bbls., cbys., basis 100%..lb. 1.40 - —

Tobias, bbls. .....lb. .65 - —

Trichloroacetic, bots.....lb. 2.00 - 2.50

Toluenesulphonic, dms., works....lb. .20 - —

Tungstic, tech., 100-lb. pkgs.....lb. 2.65 - —

Aconite leaves, bls.....lb. .55 - .60
Root, bls. .....lb. .75 - .80

Aconitine, amorph., mild, bots.....oz. 72.25 -72.50
cryst., potent, bots.....oz. 85.00 - —

Acrylonitrile, dms., c.l., works.....lb. .30½- —
l.c.l., works .....lb. .31 - .42
tanks, works .....lb. .29½- —

Adeps lanae (see Lanolin).

Adonis vernalis herb, bls.....lb. .35 - .40

Agar .....lb. 3.15 - 3.25

Agaric, white, bls.....lb. 1.75 - 1.80

Agrimony herb, bls.....lb. .35 - .40

Albumen (egg), edible, flake, bbls...lb. 2.62 - 2.75
powd., bbls. .....lb. 2.67 - 2.80
tech., cryst., bbls.....lb. 1.55 - 1.65

Albumin, blood, dark (see Blood, dried, soluble)
light, dms., l.c.l.....lb. .70 - .75
Egg (see Albumen).

Alcohol, allyl, dms., c.l., dlvd.....lb. .26½- —
l.c.l., dlvd. .....lb. .27½- —
tanks, dlvd. .....lb. .25 - —

Amyl, ex pentane, dms., c.l., frt. alld. E. of Miss..lb. .18 - —
l.c.l., frt. alld. E. of Miss..lb. .19 - —
tanks, frt. alld E. of Miss....lb. .17 - —
(see also Fusel oil, ref.)

Benzyl, cns.....lb. .72 - .80
dms. .....lb. .68 - .88

Butyl, normal, ferment., Ill., Ind. prod., dms., c.l., frt. alld..lb. .33 - —
l.c.l., frt. alld. E.....lb. .34 - —
tanks, frt. alld. E.....lb. .31½- —
tankwagon, frt. alld. E....lb. .32 - —
other production, dms., c.l., frt. alld. E..lb. .33 - —
l.c.l., frt. alld. E.....lb. .34 - —
tanks, frt. alld. E.....lb. .31½- —
synthetic, dms., c.l., frt. alld. E..lb. .19 - —
l.c.l., frt. alld. E.....lb. .20 - —
tanks, frt. alld. E.....lb. .17½- —

Normal synthetic butyl alcohol prices in West .01c. per lb. higher.

secondary, dms., c.l., dlvd.....lb. .12 - .13½
l.c.l., dlvd. .....lb. .12½- .14
tanks, dlvd. .....lb. .10½- .12

tertiary, dms., c.l.....lb. .13½- —
l.c.l., dms. .....lb. .14 - —
tanks .....lb. .12 - —

Capryl, dms., c.l., works.....lb. .26 - —
l.c.l., works. .....lb. .27 - —
tanks, works .....lb. .24½- —

Cetyl, dom., CP., fiber ctns., 1,000 lbs..lb. 2.25 - —
smaller lots .....lb. 2.30 - 2.55

Cinnamic, bots. .....lb. 2.80 - 3.35

Denatured, CD 12, CD13, CD14, dms., dlvd. E. of Miss. R..gal. .91½- —
l.c.l., dlvd. E. of Miss. R.gal. .95½- 1.00½
tanks, dlvd. E of Miss. R...gal. .84½- —
Tankcar sales require written authorization by Alcohol Tax Unit.

SD1, 190 pf., dms., c.l., dlvd. E of Miss. R..gal. .92 - —
l.c.l., same basis.....gal. .96 - 1.01
tanks, same basis.....gal. .85 - —

SD2B, dms., c.l., dlvd. E. of Miss. R..gal. .92 - —
l.c.l., same basis.....gal. .96 - 1.01
tanks, same basis.....gal. .85 - —

SD23H, dms., c.l., dlvd. E. of Miss. R..gal. .90 - —
l.c.l., same basis.....gal. .94 - .96
tanks, same basis.....gal. .83 - —

SD29, denatured with acetaldehyde, dms., c.l., dlvd. E. of Miss. R..gal. .93 - —
l.c.l., same basis.....gal. .97 - 1.02
tanks, same basis.....gal. .86 - —

When any of the several SD29 denaturants is supplied by the purchaser, the prices are the same as those of SD21 plus 1½c. per gal. denaturing charge.

Special solvent, dms., c.l., dlvd. E. of Miss. R..gal. .92½- —
l.c.l., same basis.....gal. .96½- 1.01½
tanks, same basis.....gal. .85½- —

Tankcar sales require written authorization by Alcohol Tax Unit.

Diacetone, acetone free, dms., c.l., dlvd..lb. .13½- .14½
l.c.l., dlvd. .....lb. .14 - .15½
tanks, dlvd. .....lb. .12 - .13
tech., dms., c.l., dlvd.....lb. .14 - —
l.c.l., dlvd. .....lb. .15 - —
tanks, dlvd. .....lb. .12½- —

Ethyl, 190 pf., dms., c.l., dlvd. E. of Miss. R..gal. 18.02 - —
l.c.l., same basis.....gal. 18.06 -18.11
tanks, same basis.....gal. 17.95 - —
absolute, dms., c.l., same basis. gal. 18.99 - —
l.c.l., same basis.....gal. 19.03 -19.08
tanks, same basis.....gal. 18.92 - —

Ethylhexyl, dms., c.l., works.....lb. .30 - —
l.c.l., works. .....lb. .30½- —
tanks, works.....lb. .28½- —

Alcohol, furfuryl, tech., cns., works..lb. .30 - —
dms., c.l., works..lb. .21½- —
l.c.l., works..lb .23 - —
tanks, works..lb .18 - —
Isoamyl (see Carbinol, Isobutyl).
Isobutyl, refd., dms., works..lb .13 - —
tanks, works..lb. .12 - —
Isopropyl, refd., 91%, dms., incl., c.l., dlvd..gal. .50½- —
l.c.l., dlvd..gal. .53½- —
tanks, dlvd..gal. .41 - —
99%, dms., incl., c.l., dlvd..gal. .54½- —
l.c.l., dlvd..gal .57½- —
tanks, dlvd..gal. .45 - —
Methyl (see Methanol).
Methylamyl (see Carbinol, methylisobutyl)
Octyl, perfumer's grade, bots..lb. 5.50 - —
Phenylethyl, cns..lb 1.50 - 2.50
Polyvinyl, type A, fiber-pack, Niagara Falls..lb. .65 - .70
type B, fiber-pack, same basis..lb. .60 - .68
Propyl, normal, dms., c.l., works..lb. 12½- —
l.c.l., works..lb. .13 - —
tanks, works..lb .11 - —
Salicyl (see Saligenin).
Tetrahydrofurfuryl, cns., Cedar Rapids, Ia..lb. .47 - —
dms., c.l., Waverly, N. Y..lb. .40 - —
l.c.l., same basis..lb. .44 - —
tanks, Niagara Falls, N. Y..lb. .36 - —
Aldol, 95%, dms., works..lb. .15 - .18
denaturing grade, dms..gal. 1.33 - 1.48
Alkitris root, bgs..lb. 1.75 - 1.80
Alkin, bbls., fib, dms..lb. .76 - 1.00
Alizarin (see Red, alizarin).

Alkanet root, bgs..lb. .60 - .65
Allspice, Jamaica (see Pimento).
Mexican, bgs..lb. 14½- 15
Allyl bromide, cbys., 5,000 lbs., works..lb. .99 - —
smaller lots, works..lb. 1.05 - 1.10
Chloride, dms., c.l., dlvd..lb. .14 - —
l.c.l., dlvd..lb. .14½- —
tanks, dlvd..lb. .12½- —
Aloe, Cape, es..lb. .30 - .31
Curacao, kgs..lb. .35 - .36
Socotrine, kgs..lb. .35 - .36
Alpin, bbls., dms., kgs..lb. 3.75 - 4.05
Alphacellulose, bgs., c.l., works..lb .04 - .15
Alphanaphthol, bbls..lb. .63 - .70
Alphanaphthylamine, bbls..lb. .38 - 38½
Alphanaphthylthiourea, 93-98%, fib. dms, works, frt. alld..lb. 4.00 - 4.40
Alphanitronaphthalene, bbls..lb. .34 - —
Alphapicoline, ref. dms., works, frt. equald..lb. .27½- .30
Alphapinene, tanks, S. works..gal. .47 - —
Alphaterpineol, dms., l.c.l., dlvd. E.lb. .18 - —
Alphatocopherol, ampuls..kilo. 750.00 - —
Althea root, NF, peeled, bls..lb. .30 - .35
Alum, ammonia, burnt, USP, bbls., lb. .16 - .18
gran., bbls., works..100 lbs. 3.80 - —
lump, bbls., works..100 lbs. 4.05 - —
powd., bbls., works..100 lbs. 4.20 - —
Potash, gran., bbls., works..100 lbs. 4.05 - —
lump, bbls., works..100 lbs. 4.25 - —
powd., bbls., works..100 lbs. 4.45 - —
Potash-chrome, bbls..lb. .12½- .15
Soda, bbls., c.l., works..100 lbs. 3.25 - —
l.c.l., dlvd..100 lbs. 4.25 - 5.00

Alumina, calcined, bgs., c.l., works..lb. .03½- —
l.c.l., works..lb. .04½- .06¾
crystalline (see Aluminum oxide).
Aluminum acetate, basic solution, 24%, bbls., l.c.l., works..lb. .11 - —
20%, bbls., l.c.l., works..lb .10 - —
Chloride, anhyd., com'l, dms., c.l., works..lb. .10 - .11
l.c.l., works..lb. .10¼- —
cryst., com'l, dms., c.l., works..lb. .06 - —
l.c.l., works..lb. .06½- .06¾
solution, 32°, cbys., c.l., works..lb .02¾- —
l.c.l., works..lb. .03¼- —
Fluoride, tech., anhyd., bbls., c.l., frt. equald..lb. .10 - —
l.c.l., frt. alld..lb .11 - .13
Formate, basic solution, cks., c.l..lb. .06½- —
c.l., works..lb .10 - —
Hydrate, heavy, bgs., c.l., frt. equald. ton. 52.00 - 56.00
l.c.l., works..ton. 72.00 - —
light, bgs., dlvd..lb. .17 - —
Hydroxide gel, tech., min. 15% Al(OH)3, dms., 10,000 lbs. or more, f.o.b. ship't point..lb. .03 - .03½
ton lots, same basis..lb. .03¾- .05½
smaller lots, same basis..lb .03¾- .04
14-15% Al_2O_3, fib dms., works, lb. .20¾- —
contract, works..lb .19¾- —
9-9½% Al_2O_3, fib. dms., works, lb. .17¾- —
contract, works..lb. .16¾- —
dried, USP XII, fib. dms., works, lb. .78 - —
contract, works..lb. .75 - —
powder, tech. (see Aluminum hydrate).
USP IX bbls., dms..lb. .15 - .17

Aluminum laurate, precip., bbls..lb. .42 - —
Linoleate, solid, bbls..lb. .48 - —
Metal, 98-99%, ingots, 10,000 lbs..lb. .16 - —
pigs, 10,000 lbs..lb. .15 - —
Naphthenate, liquid, dms., dlvd..lb. .24½- —
Oleate, dms., contract..lb. .43¾- —
Oxide, amorphous (see Alumina, calcined), cryst., flour, classified, 8-240 mesh, dms., frt. alld..lb. .14 - .18
kgs., ton, frt. alld..lb. .12½- —
smaller lots, frt. alld..lb. .13 - .15
280-400 mesh, dms., frt. alld..lb. .22 - .25
kgs., frt. alld..lb. .21 - —
500 mesh, dms., frt. alld..lb. .25 - .27
kgs., frt. alld..lb. .24 - —
600 mesh, dms., frt. alld..lb. .24 - .27
kgs., frt. alld..lb. .23 - —
optical, floated, kgs., dlvd..lb. .26 - .28
unclassified, dms., frt. alld..lb. .16 - .17
kgs., frt. alld..lb. .15 - —

Aluminum oxide flour prices 1c. per lb. higher.

Paste, lining, extra fine, dms..lb. .28 - —
standard, dms..lb. .23½- —
Powder, lining, extra fine, dms..lb. .26 - —
standard, dms..lb. .24½- —
rubber comp., dms..lb. .48½- —
unpolished, standard, dms..lb. .44½- —
varnish, standard, dms..lb. .49 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb for 100 lb. drm, 1½c. per lb. for 50-lb. drm., 3c. per lb. for 10-lb. can, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 500 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier, transportation rate will be made from sellers' invoice on orders of 200 lbs. or over.

Resinate, precip., dms..lb. .20½- —
Stearate, dibasic, ctns., c.l..lb. .44 - —
l.c.l..lb. .45 - —
monobasic ctns., c.l..lb. .44 - —
l.c.l..lb. .45 - —
tribasic, ctns., c.l..lb. .49 - —
less than 1 ton..lb. .50 - .51
Sulphate com'l, bgs., c.l., works, frt. equald..100 lbs. 1.50 - —
l.c.l., same basis..100 lbs. 1.70 - —
iron-free, bgs., c.l., works, frt. equald..100 lbs. 2.50 - —
l.c.l., works..100 lbs. 2.90 - —
Trihydrate, heavy (see Aluminum hydrate).
Ambergris, gray, tins..oz. 8.50 - 12.00
Aminoazotoluene, bbls..lb .85 - —
Aminomethylpropanol, cns., dms., works, lb. .50 - .60
Aminomethylethanolamine, tanks, works, lb. .50 - —
Aminopyrine, bots., dms..lb. 6.00 - 6.10
Ammonia, anhydrous, fertilizer, tanks, works, frt. equald..ton. 59.00 - 70.00
pure, cyls., extra..lb .16 - —
refrigeration, tanks, works..ton. 61.50 - 72.50
Aqua, cns., c.l., works..lb. .03 - .03½
l.c.l., works..lb .03½- —
tanks, works (NH_3 content)..ton 65.00 - —
Ammoniac gum (see Gum, ammoniac).
Sal, gray, bbls., c.l., works..100 lbs. 7.00 - —
l.c.l., works..100 lbs 7.40 - —
white, gran., bbls., c.l., works, 100 lbs. 4.75 - —
l.c.l., works..100 lbs. 5.15 - —
Ammonium acetate, purified, dms..lb. .39 - .40
reagent, jars..lb. .61 - .63
Benzoate, USP, dms., kgs., 4,000 lbs., frt. alld..lb. .80 - —
smaller lots, frt. alld..lb. .81 - 1.00
Biborate, bbls., c.l., works..ton 320.00 - —
ton lots, works..ton. 328.50 - —
less ton lots, works..ton. 343.50 - —
Bicarbonate, dms., works, c.l..lb .06¼ - .07½
Bichromate, bbls., works..lb. .26 - .30
Bifluoride, dms., frt. alld. E..lb. .15½- .16½
Bromide, gran., NF, bbls..lb. .36 - .37
dms..lb. .37 - .40
powdered ammonia bromide 10c. per lb. higher.
Carbonate, USP, lump, dms..lb. .16½- .17
powdered, 1c. per lb. higher.
Chloride, tech. (see Ammoniac, sal).
USP, bbls., dms., kgs..lb. .13 - .18
Citrate, dibasic, bbls..lb. .75 - —
cms..lb. .80 - .85
Fluoride (see Bifluoride).
Hydroxide (see Ammonia aqua).
Hypophosphite, NF, dms..lb. 2.24 - —
Iodide, NF, jars..lb. 3.30 - 3.40
Linoleate, plastic, 80%, dms., works..lb. .40½- —
kgs., works..lb. .42½- —
25%, dms., frt. alld, zone 1..lb. .21½- —
tech., bbls., works..lb .37 - —
dms., works..lb. .39 - —
Molybdate, CP, cryst., kgs..lb. 1.26 - 1.30
fine cryst., bbls., kgs..lb. .84 - .87
purified, dms..lb. 1.10 - 1.12
Nitrate, fertilizer grade, Canadian, 33.5% N, bgs., c.l., shipping point..ton. 29.50 - —
dom., bgs., western works..ton. 50.00 - 52.50
Nitrate-dolomite, 20.5% N, bgs., Hopewell, Va..ton. 42.50 - —
Oleate, dms..lb. .21½- —
Oxalate, fine gran., bbls..lb. .27 - —
dms..lb. .25 - .30
Pentaborate, gran., bbls., c.l., works, ton. 230.00 - —
ton lots, works..ton. 248.50 - —
less ton lots, works..ton. 263.50 - —
Ammonia pentaborate powder, $10 per ton higher.
Perchlorate, kgs..lb. .28 - —
Persulphate, kgs..lb. .25½- .26¾
Phosphate, dibasic, NF V, bbls., kgs. lb. .37 - .39
tech., bgs., c.l., works..lb. .07 - —
l.c.l., works..lb. .07½- —
Salicylate, NF, dms., kgs..lb. 1.25 - —
Silicofluoride, bbls., works..lb. .12½- —
Stearate, anhydrous, dms..lb. .51 - —
paste, dms..lb. .60½- —
Sulphamate, bbls., dms., works..lb. .18 - .20
Sulphate, bulk, producing evens..ton 40.00 - 45.00
Sulphide, liquid, 40-45% basis, 100% dms., c.l., works..lb. .10 - —
l.c.l., works..lb. .10½- —
tanks, dlvd or frt alld..lb. .08½- —
Sulphocyanide, reagent, dms..lb. .65 - .75
tech. (see Ammonium thiocyanate).
Thiocyanate tech., bbls., c.l., works, lb. .15 - —
l.c.l., bbls., works..lb. .16 - .18
Thioglycolate, highly purified, 100% basis, bbls..lb. 7.10 - 8.35
Amyl acetate, ex fusel oil, tech., dms., c.l., dlvd..lb. .20½- —
l.c.l., dlvd..lb. .21½- —
tanks, dlvd..lb .29 - —
ex pentane, dms., c.l., frt. alld E. of Miss. R..lb. .24 - —
l.c.l., same basis..lb. .25 - —
tanks, same basis..lb. .23 - —
Alcohol (see Alcohol, amyl).

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Amyl Butyrate—Black Indian Hemp Root

Amyl butyrate, dms. lb. .90 - 1.00
Chloride, mixed, tech., dms., c.l., works. lb. .07 - —
l.c.l., works. lb. .08 - —
tanks, works. lb. .06 - —
Ether (see Ether, amyl).
Nitrite, USP, bots. lb. 1.75 - 1.83
Mercaptan, dms., works. lb. 1.10 - —
Salicylate, cns. lb. .77 - 1.00
Stearate, dms., works. lb. .42 - .45½
Anethol, com'l, dms., works. lb. .50 - —
NF, dms. lb. .00 - 1.40
Angelica root, dom. (atropurpurea), bls. lb. .95 - 1.05
imported, bls. lb. 1.25 - 1.30
Angostura bark, bls. lb. .50 - .55
Anilin oil, dms., c.l., works, frt. alld. lb. .15 - —
l.c.l., works, frt. alld. lb. .16 - —
tanks, works, frt. alld. lb. .14 - —
Salt, dms., works. lb. .26 - —
Anise, Argentine, bgs. lb. No stocks
Chinese, Star lb. .15½- .16
Cyprus, bgs. lb. .20 - .20½
Mexican, bgs. lb. No stocks
Syrian, bgs., futures. lb. .19 - .19½
Anisic aldehyde, bots., cns. lb 2.27 - 3.35
dms. lb. 2.22 - 2.75
Annatto paste, bxs. lb. .34 - .37
Seed, bgs. lb. .19 - .20
Anthracene, 80-85%, bbls., works. lb. .60 - .80
90%, bbls., works. lb. .81 - 1.00
Anthraquinone, 99.5%, bbls. lb. .80 - —
Antimony butter (see Antimony chloride).
Chloride, solut., cbys. lb. .17 - —
Metal, bulk, c.l., mines. lb. .33 - .33½
Needle, cs. lb. No stocks
Antimony oxide, ceramic grade, bgs., c.l., dlvd. lb. .31 - —
l.c.l., dlvd. lb. .32 - —
paint grade, bgs., c.l., works. lb. .33½- .34
l.c.l., works. lb. .34½- .35
Salt, 65%, bgs., c.l., dlvd. E. of Miss. lb. No stocks
Sulphide, 65-70%, bbls., c.l., works. lb. .22 - —
l.c.l., works. lb. .24 - —
Antimony-potassium tartrate (see Tartar emetic)
Antipyrine, bbls. lb. 2.35 - 2.45
Apomorphine, bots. oz. 23.20 -23.70
Archil extract, bbls. lb. No stocks
Areca nuts, powd., bbls. lb. .22 - .25
Arecoline hydrobromide, bots. oz. 6.10 - 7.10
Argols, min. 70%, bgs., shipment ports, per 100 kilos (100% purity). 20.00 - —
Arnica flowers, bbls. lb. .80 - .85
Arrowroot, powd., bgs., bbls. lb. .16 - .17
Arsenic, metal, lump, bbls., prompt shipt. lb. .55 - —
Sulphide, yellow, bbls. lb. No stocks
Trioxide (see Acid, arsenous).
White, powd., bbls., c.l. lb. .06¼- —
l.c.l. lb. 08 - 09
Asafetida, cs. lb. .35 - .36
powd., bbls., dms. lb. .50 - .53
Asbestine (see Talc, fibrous, N. Y.)
Asbestos fiber, 5D and 5K, bgs., c.l. (20 tons), Can. mines. ton. 76.50 - —
5R, bgs., c.l. (20 tons), same basis. ton. 68.50 - —
6D, bgs., c.l. (30 tons), same basis. ton. 51.00 - —
Asbestos fiber, 7D, bgs., c.l. (30 tons), same basis. ton. 46.50 - —
7F, bgs., c.l. (30 tons), same basis. ton. 44.00 - —
7K, bgs., c.l. (30 tons), same basis. ton. 31.00 - —
7M, bgs., c.l. (30 tons), same basis. ton. 27.50 - —
7R, bgs., c.l. (30 tons), same basis. ton. 26.50 - —
7RF, bgs., c.l., same basis. ton. 27.00 - —
7T, bgs., c.l., same basis. ton. 25.50 - —
7TF, bgs., c.l., same basis. ton. 27.00 - —
Asphaltum, California, dms., c.l. ton. 36.40 - —
l.c.l. ton. 41.40 - —
Cuban, A, bulk, c.l. ton. 60.00 - —
l.c.l. ton. 90.00 - —
B, bulk, c.l. ton. 38.50 - —
l.c.l. ton. 55.00 - —
Gilsonite, brilliant black, selects 270°-295° F. fus. pt., bgs., f.o.b. Colo. mines. ton. 36.50 - —
seconds, 300°-390° F. fusing point, not uniform, bgs., mines. ton. 29.00 - —
jet, bgs., ton lots, gross weight, Colo. mines. ton. 29.00 - —
Manjak, No. 10, crude, dms., works, lb. .06½- —
process form, bgs., works. lb. .05¾- .12
Mexican, refd., dms., f.o.b. Tampico, metric ton. 27.50 - —
South American, refd., dms., c.l., N. J. refy. ton. 22.00 -23.00
l.c.l., same basis. ton. 24.00 -25.00
tanks, same basis. ton. 15.00 - —
Atropine, bots. oz. 13.50 -15.00
Sulphate, bots. oz. 10.35 -12.00

B

Balm of Gilead buds, bgs. lb. 2.00 - 2.25
Barbasco root (see Cube root).
Barberry root bark, bgs. lb. 78 - .80
Barbital, dms. lb. 4.50 - —
Sodium, dms. lb. 4.75 - —
Barium carbonate, precip., bgs., 10 tons and up, works. ton. 72.50 -80.00
smaller lots, works. lb. 82.50 -90.00
Chlorate, bgs., works lb .25½- .31
Chloride, NF, cryst., dms. lb. .17 - .18
pure, bbls., kgs. lb. 10 - .12
tech., bgs., c.l., works ton. 85 00 - —
l.c.l., works ton. 95 00 - —
Chromate, bgs., frt. equald. lb. .31½- .32
Dioxide, dms., c.l., works. lb. 12 - —
l.c.l., works lb. 12 - —
Fluoride, bbls. lb. 14 - —
Hydrate, crystals, bgs. lb. 09 - .09½
Hydroxide, 5-bbls. works. lb. 19 - —
Iodide, bots lb. 5 12 - —
Monoxide (see Oxide)
Nitrate, bbls., c.l., works. lb. .11½- —
l.c.l., works lb. .13 - —
Oxide, grd., dms., works. lb. .11 - .11½
l.c.l., works lb. 12½- .13½
Peroxide (see Dioxide)
Silicofluoride, bbls. lb. 17 - .19
Stearate, ctns., 1-ton up. lb. 48 - .49
smaller lots. lb. 50 - .51
Sulphate, tech (see Barytes and Blanc fixe)
X-ray, bbls. lb. 11 - .13
Sulphide, dms., c.l., works. ton 55.00 - —
l.c.l., works ton 70 00 - —
Baryte ore, approx. 94% $BaSO_4$, bulk, mines. ton. 9.40 -12.50
Barytes, water-grd., paper bgs., c.l. St. Louis. ton. 33.30 - —
l.c.l., same basis. ton. 35.10 - —
ex whse., N. Y. ton. 46 25 - —
Southern off-color, bgs., mines. ton. 19 00 - —
95.75%, bgs., mines. ton 20 00 - —
Barberry bark, bgs. lb. 12 - .13
Bay leaves (see Laurel leaves)
Belladonna leaf, bls. lb. 1.30 - 1.40
Root, bls lb. 65 - .70
Bauxite, bulk, mines. ton. 8 50 -10.00
Bentonite, 200 mesh, bgs., works. ton 11 00 - —
Benzaldehyde, NF, dms. lb. 68 - .90
tech., cbys., dms lb. .45 - .55
Benzene (see Benzol).
Hexachloride, tech., 11% gamma bgs., dms., c.l., works. lb. .36½- .37½
l.c.l., works lb. .32½- .42
dust, dry, 50%, distributors, dms., c.l., dlvd. lb. .21 - —
l.c.l., dlvd. lb. .22 - —
wet, 50%, distributors, dms., c.l., dlvd. lb. .22 - —
l.c.l., dlvd. lb. .23 - —
Benzidin base, bbls. lb. 85 - —
Benzocaine, cns. lb. 3.50 - 3.85
Benzol (benzene), pure, nitration and 90%, dms. ret., works. gal. .27 - .29
tanks, E. of Omaha, frt. alld. up to 2c. gal. .21 - —
W Coast, Minnequa, Colo., same basis. gal. 21 - —
Benzophenone, dms. lb. 1.30 - 1.70
Benzoyl chloride, cbys. lb. .20 - .25
l.c.l., works. lb. .22½- —
Peroxide, pure, fib. ctns., works. lb. .90 - 1.00
Benzyl acetate, f.f.c., dms. lb. 60 - 1.00
dms. lb. .60 - .70
Alcohol (see Alcohol, benzyl).
Benzoate, f.f.c., cns., dms lb. 1.00 - 1.40
Chloride, tech., cbys., c.l., works, frt. equald. lb. .19 - .21½
l.c.l., same basis. lb. .20 - .22½
Cinnamate, cns. lb. 3.65 - 4.00
Formate, cns. lb. 1.95 - 3.50
Propionate, bots. lb. 1.85 - 2.50
Salicylate, bots. lb. 1.80 - 2.25
Benzylidinacetone, bots. lb. 1.85 - 2.70
Benzylisoeugenol, bots. lb. 9.50 - —
Berberine bisulphate, cns. lb. No stocks
Hydrochloride, bots. lb. No stocks
Sulphate, cns. lb. No stocks
Berberis root, bls. lb. 30 - .35
Betagammapicoline, dms., c.l., works. lb. .23½- —
l.c.l., works lb. .24 - —
Betanaphthol, resublimed, dms., works. lb. .75 - —
tech., bbls., c.l., works. lb. .30 - —
l.c.l., works lb. .32 - —
Benzoate, fib. dms., works. lb. 1.75 - —
Salicylate, dms. lb. 5.00 - —
Betanaphthylamine, tech., bbls., works. lb. .62 - .70
Betapicolin, 90%, ret. dms., c.l., works. lb. 1.35 - —
l.c.l., works lb. 1.70 - —
Beth root, bls. lb. .48 - .50
Biotin, cryst. gram. 12.50 - —
Bismuth chloride, jars. lb. 4.50 - —
Citrate, USP VIII, jars. lb. 3.12 - —
Hydroxide, dms. lb. 3.98 - —
Metal, bxs., ton lots. lb. 2.00 - —
Nitrate, cryst., dms. lb. 1.70 - —
Oxychloride, dms. lb. 3.79 - —
Oxide, anhydrous, dms. lb. 4.40 - —
Subcarbonate, USP, dms. lb. 2.00 - 2.05
Subgallate, NF, fib. dms. lb. 2.45 - 2.48
Subiodide, fib. dms. lb. 4.90 - —
Subnitrate, USP, dms. lb. 2.15 - 2.18
Subsalicylate, USP, dms. lb. 3.05 - —
Sulphocarbolate, fib. dms. lb. 4.20 - —
Bismuth ammonium citrate, USP, powd., dms. lb. 3.80 - —
Black, acetylene, bgs., c.l., works. lb. .15½- —
cs., l.c.l., ship. point. lb. .17 - .19
Bone, bgs., bbls., l.c.l., dlvd. lb. .14⅞- .22½
Carload price is ½c. per lb. under the above schedule, with deliveries to the Pacific Coast ex dock or whse., 1½c. per lb. higher.
Carbon, channel, beads, bulk, c.l., works. lb. .07 - —
bgs., c.l., works. lb. .07½- —
l.c.l., dlvd. or whse. lb. .11¼- .13
uncompressed, regular, bgs., c.l., works. lb. .08 - —
bgs., ctns., l.c.l., dlvd. or whse. lb. .13¼- —
furnace, fast extruding, bgs., c.l., works. lb. .05½- —
ctns., l.c.l., whse. lb. .09½- —
high modulus, bgs., c.l., works. lb. .05 - —
ctns., l.c.l., whse. lb. .09 - —
semi-reinforcing, bgs., c.l., works. lb. .03½- —
ctns., l.c.l., whse. lb. .07½- —
very fine, bgs., c.l., works. lb. .07½- —
l.c.l., dlvd. or whse. lb. .1125- .13
Charcoal (see C).
Graphite (see G).
Iron oxide, synthetic, bgs., c.l., works. lb. .10½- —
l.c.l., works lb. .11 - —
Lamp, bgs., c.l., works. lb. .07 - .09
Mineral, bgs., works. lb. .0100- .015
Black ash (see Barium sulphide).
Black dyes (see Dyes).
Black haw root, bark, bls. lb. .73 - .80
Tree bark, bls. lb. .28 - .30
Black Indian hemp root, bls. lb. .32 - .35

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CALCO's Bulk Pharmaceuticals*

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- Sodium Sulfamerazine U.S.P.
- Sulfanilamide U.S.P. (powder, crystal and micro crystal)
- Sulfathiazole U.S.P. (powder, crystal and micro crystal)
- Sodium Sulfathiazole U.S.P.
- Sulfapyridine N.F.
- Sodium Sulfapyridine
- Aminoacetic Acid N.F.
- Calcium Pantothenate (Dextro)
- Choline Chloride
- Choline Dihydrogen Citrate
- Cinchophen N.F. (and Sodium Salt)
- Folic Acid
- Neocinchophen U.S.P.
- Mandelic Acid N.F.
- Calcium Mandelate U.S.P.
- Menadione U.S.P.
- Methylene Blue U.S.P. (powder and crystal)
- Nicotinic Acid U.S.P.
- Nicotinamide U.S.P.
- Nicotinamide HCl.
- Pyridoxine HCl.
- Saligenin
- Propylthiouracil
- Phenothiazine N.F. (Regular and Drench grades for Veterinary use)
- Certified Colors for Pharmaceutical and Cosmetic Use

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Blanc fixe, dry, by-product.. bgs., c.l., works..ton.75.00 - —
l.c.l., works .....ton.82.50 - —
direct process, bgs., c.l., works.. ton.85.00 - —
l.c.l., works .....ton.90.00 - —
N. Y. whse.....ton.108.00 -120.00
bbls., c.l., works.....ton.90.00 - —
l.c.l., works .....ton.95.00 - —
N. Y. whse.....ton.113.00 - —
pulp, 66⅔%, bbls., c.l., works..ton.65.00 - —
l.c.l., same basis.....ton 71.00 - —

Bleaching powder, dms., c.l., works
100 lbs. 4.25 - —
l.c.l., works .....100 lbs. 4.75 - —
bbls., c.l., works.....100 lbs. 4.00 - —
l.c.l., works .....100 lbs. 4.50 - —

Blood, dried, 16-16½% ammo., bgs.. unit-ton. 6.65 - —
high-grade, unground, 16-17% ammon, bulk, Chicago..unit-ton. 7.00 - —
soluble, bgs., l.c.l.....lb. .17 - .25
Bloodroot, bls. .....lb .75 - .80

Blue, alkali, dry, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. 1.90 - —
Toner, bbls., litho flushed, same basis..lb. 1.10 - —
Celestial, bbls., same basis..... lb. .15 - .16
Chinese, bbls., same basis..... lb. .45 - —
Cobalt, genuin , bbls., same basis lb 4.90 - —
imitation (see Blue, ultramarine)
Copper-phthalocyanin, full strength, bbls., same basis..lb. 3.75 - 3.85
80% bbls., same basis.....lb. 3.00 - 3.40
Iron (see Blue, Chinese, Milori, Potash Prussian, and Soda).
Methyl violet toner, bbls. same basis. lb. 4.20 - —
Milori, bbls., same basis.....lb. .45 - —
Peacock, fugitive, 100% color strength, same basis..lb. .60 - .70
Permanent toner, green shade, molybdic, bbls., same basis lb. 3.75 - —
Tungstic .....lb. 4.00 - —
Potash, CP, bbls., same basis.....lb. .51 - —
Prussian, bbls., same basis..... lb. .45 - —
soluble, bbls., same basis.....lb. .45 - —
Soda, CP, bronze, bbls same basis, to. .99 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis..lb. .25 - .29
jobbing type, dry, bbls., same basis..lb. .14 - .15
regular types, dry or pulp, bbls., same basis..lb. .19 - .29
Victoria, toner, molybdic, bbls... lb 3.75 - —
Tungstic, bbls.....lb. 3.75 - —
Ink toner, bbls., same basis.....lb. 2.05 - 2.12
Violet toner, molybdic, bbls., same basis. lb 1.24 - —
Tungstic, kgs., same basis. .....lb. 2.60 - 2.70

Blue dry colors, dlvd. prices 1gc higher Ala., Fla., Ga., La. (Shreveport, Vic.., Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln Omaha, St. Joseph, 1.6c. higher, Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago

Blue dyes are listed under Dyes.
Bluefing, root, bls.....lb. No stocks
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).

Bodo leaves, bls.....lb. .08 - .09
Bone, raw, bulk, Chicago.....ton 25.00 - —
dark, bulk, same basis.....ton.50.00 -52.00
Meal, raw, 4½% ammon., 50% phos., bgs., E. works..ton 65.00 - —
Chicago, works.....ton 60.00 - —
steamed, feeding grade, 1% ammon., 60% phos., bgs., E. works..ton 67.00 - —
Chicago, works .....ton.65.00 - —
fertilizer grade, 3% ammon., 50% phos., bgs., E. works..ton.60.00 - —
Chicago, works .....ton 60.00 - —

Phosphate, defluorinated (see D).
precipitated (see Calcium phosphate tribasic precip)

Boneset leaves, bls.....lb. .15 - .16
Borage flowers, bls.....lb. .50 - .55

Borax, tech., 99½%, cryst., paper bgs., c.l., works, frt. split..ton.74.50 - 78.00
ton lots, ex whse., N. Y. or Chi..ton.94.20 -94.50
less ton lots, same basis..ton.90.20 -90.50
bbls., c.l., works, frt. split..ton.94.50 - —
ton lots, ex whse., N. Y. or Chi..ton.114.20 -114.50
less ton lots, same basis..ton 110.20 -110.50
fine gran., bulk, works.....ton.44.50 -47.50
paper bgs., c.l., works, frt. split. ton.48.50 - —
ton lots, ex whse., N. Y. or Chi..ton.68.20 -68.50
less ton lots, same basis..ton 73.20 -73.50
bbls., c.l., works, frt. split..ton.68.50 - —
ton lots, ex whse., N. Y. or Chi..ton.88.20 -88.50
less ton lots, same basis..ton.93.20 -93.50
powdered, paper bgs., c.l., works, frt. split..ton.53.50 - —
ton lots, ex whse., N. Y. or Chi..ton.73.20 -73.50
less ton lots, same basis..ton.78.20 -78.50
bbls., c.l., works, frt. split..ton.73.50 - —
ton lots, ex whse., N. Y. or Chi..ton.93.20 -93.50
less ton lots, same basis..ton.98.20 -98.50

Borax packed in kgs. is $40 per ton higher than borax packed in paper bags USP, $15 per ton higher.

Bordeaux mixture, bgs., c.l., works, frt. alld, or nearest whse. point..lb. .15 - .21
l.c.l., same basis.....lb. .18 - .23
Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate)
Brazilwood extract (see Hypernic).
Brimstone (see Sulphur).

Bromine, purified, cs., c.l., frt. alld. E. of Rockies..lb. .21 - —
1,000 lbs., same basis.....lb. .20 - —
single pkgs., same basis.....lb. .28 - —
dms., lead-lined, c.l., dlvd.....lb. .19 - —
Bromoform, USP, bots.....lb. 1.50 - 1.70
clys. .....lb. 1.42 - —
Bromstyrol, bots.....lb. 4.85 - 6.25

Bronze powder, aluminum (see A).
Gold, litho., cans, dms., works..lb. .50 - .60
moulding, cans, dms., works..lb. .80 - 1.00
printing ink, cans, dms., works. lb. .95 - 1.10
radiator, cans, dms., works...lb. .60 - .65
Broomtop, bls. .....lb. .25 - .26
Brown, iron, synth., bgs., l.c.l., works. lb. .12 - .12½
Oxide, metallic, bgs., works.....lb. .07 - .09½
Sap, crystals, works.....lb. .12 - —
powdered .....lb. .13 - —
Sienna, burnt, paper bgs., c.l., works..lb. .06¾ - .14¾
l.c.l., works .....lb. .04 - .15
raw, paper bgs., c.l., works.....lb. .04 - .12½
l.c.l., works .....lb. .04¼ - .12¾
Umber, burnt, American, c.l., bbls., works..lb. .04¾ - .05¾
l.c.l., bgs., works.....lb. .05 - .06¾
Turkey type, bgs., c.l. Boston, Bethlehem, Easton, Pa., Hiwassee, Wa., N. Y..lb. .05¾ - .07¾
l.c.l., works .....lb. .06 - .08

Brown, umber, raw, American, bgs., same basis..lb. .03¾ - .06
Turkey type, bgs., same basis lb. .06 - .06¼
Vandyke, bbls., works.....lb. .09¾ - .12
Brucine, cns., 100 ozs.....oz. .40 - .60
Sulphate, cns., 100 ozs.....oz. .30 - .40
Bryonia root, bls.....lb. .35 - .36
Buchu leaves, bls.....lb. .85 - 1.00
Buckthorn bark, bls.....lb. .23 - .24
cut and sifted, bls.....lb. .26 - .28
Berries, bgs .....lb. .90 - 1.00
Burdock root, bls.....lb. .25 - .30
Butane, industr., tanks, group 3....gal. .06 - —

Butyl acetate normal ferment, frt., ind., prod., dms., c.l., works, frt. alld. E. of Miss..lb. .31½ - —
l.c.l., same basis.....lb. .32½ - —
tanks, same basis.....lb .29 - —
tankwagons, same basis....lb. .30½ - —
other production, dms., c.l., same basis..lb. .31½ - —
l.c.l., same basis.....lb. .32½ - —
tanks, same basis.....lb. .30 - —
synthetic, dms., c.l., same basis. lb .19 - —
l.c.l., same basis.....lb. .20 - —
tanks, same basis.....lb. .17½ - —
Normal butyl acetate, W. of Miss., ½c per lb. higher,
secondary, dms c.l., dlvd E. of Miss. lb. .14½ - —
l.c.l., same basis.....lb. .15 - —
tanks, same basis.....lb .13 - —
Alcohol (see Alcohol, butyl).
Aldehyde, dms., c.l., works.....lb .29½ - —
l.c.l., works .....lb .31½ - —
tanks, works .....lb .19½ - —
Ether (see Ether, butyl)

Butyl lactate, dms., c.l., frt. alld. E. of Rockies..lb. .45½ - —
l.c.l., same basis.....lb. .46½ - —
tanks, same basis.....lb. .44 - —
Laurate, dms., works.....lb. .42 - —
Methacrylate, M-4, dms., works..lb. .60 - —
cns., works .....lb. .63 - .67
P-4 cns., works.....lb. .65 - —
Myristate, dms., works.....lb. No prices.
Oleate, ref., dms., l.c.l., works....lb. .52 - —
Phenylacetate, dms. .....lb. 2.00 - 2.25
Phthalate (see Dibutyl phthalate)
Propionate, dms., dlvd.....lb. No stocks
tanks, dlvd. .....lb. No stocks
Stearate, dms., c.l. frt alld E. of Rockies..lb. .49 - —
l.c.l., same basis .....lb. .50 - —
Butyl isobutyl methacrylate, F-5, 50/50, cns., works..lb .60 - —
Butyric ether (see Ethyl butyrate).

C

Cadmium bromide, jars .....lb 1.66 - 1.91
Iodide, cns .....lb 4.80 - 4.90
Lithopone (see Yellow)
Metal ingots or sticks, cs., dlvd lb. 1.75 - 1.80
patent shapes cs., dlvd .....lb. 1.75 - 1.80
Selenide (see Red)
Sulphide (see Yellow)
Caffeine, cryst., dms. 100 lbs or more. lb 4.75 - 5.00
anhydrous, dms. 100 lbs. or more. lb 5.60 - —
Citrated, dms., 100 lbs. or more... lb 3.00 - —
Hydrobromide, bots. ..... lb 6.50 - —

Calabar beans, bgs., futures.....lb. .65 - .66
Calamus root, dom., bgs.....lb. .30 - .35
imported, bleached, bls.....lb. .70 - .85
peeled, bls.....lb. .30 - .31

Calciferol, cryst., vials, 10,000 or more standard units (1 standard unit=1 000.000 USP units), works, gram. 4.00 - —
1,000 to 10 000 s u., works, gram 4.40 - —
less than 1,000 s u., works, gram 4.80 - —
in edible oil, dms., 10,000 or more... .10 - —
1,000 to 10,000 s u., works....unit. .11 - —
less than 1,000 s u., works..unit. .12 - —
Calcium acetate, bgs., dlvd....100 lbs. 3.00 - 4.00
Arsenate, dealers dms., c.l., whse., works, frt. alld..lb. .09½ - .10¾
l.c.l., same basis.....lb. .10½ - .12¾
Bromide, NF, jars.....lb. .75 - .95
Carbide, dms., c.l., works.....ton 107.00 -140.00
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars. lb. .28 - .30
flake, 77-80%, paper bgs., c.l., works, frt. equald..ton.22.00 - —
l.c.l., same basis.....ton.32.00 -61.00
liquor, works, basis 40%, tankcars. ton. 9.00 - —
solid, 73-75%, dms., c.l., works, same basis..ton.20.00 - —
l.c.l., works, same basis..ton.30.00 -50.00
Chromate, bgs., frt. equald.....lb. .29½ - .30
Cyanide, dms., dlvd. E. of Rockies.lb. .30 - .50
Gluconate, AA, bbls.....lb. .65 - .72
cns .....lb. .83 - .90
USP, bbls. .....lb. .58 - .65
cns .....lb. .76 - .88

Calcium hydrate (see Lime).
hydrosulphite, bbls., works..lb. .15 - .16
hypochlorite (see Bleaching powder)
Iodide, USP, bots.....lb. 3.50 - 3.75
Lactate, USP, bbls.....lb. .20 - .25
Oxide (see Lime).
Palmitate, dms., works.....lb. .45 - —
Peroxide, USP, bots.....lb. 1.50 - 1.75
Phosphate, dibasic, anhydrous, bbls., works..lb. .15 - .16
dibasic, dihydrate, bbls., works..lb. .15 - .16
monobasic, bbls., works.....lb. .15 - .16
tribasic, precip, bbls., works..lb. .15 - .16
Resinate, precip, bbls., works..lb. .20 - .25
Stearate, dms., works.....lb. .20 - .25
Sulphate, anhydrous, bbls., works..lb. .15 - .16
Sulphide, bbls., works.....lb. .15 - .16
Tungstate, bbls., works.....lb. .50 - .55

Camphor, natural, cryst., bbls., works. lb. .90 - .95
refined, bbls., works.....lb. .90 - .95
synthetic, bbls., works.....lb. .90 - .95
Camphoric acid, bbls., works.....lb. 1.00 - 1.05
Camphorsulphonic acid, bbls., works..lb. .75 - .80
Canada balsam, bbls., works.....lb. .90 - 1.00
Canadine, bots.....oz. 1.00 - 1.10
Cannabis indica, bots.....lb. 4.00 - 4.50
Cantharides, Chinese, bgs.....lb. 1.00 - 1.10
Russian, bgs.....lb. 1.00 - 1.10
Caprolactam, dms., works.....lb. .45 - —
Capsicum, African, bgs.....lb. .45 - .50
Japan, bgs.....lb. .45 - .50
Caramel, bbls., works.....lb. .20 - .25
Carbazole, bots.....lb. 1.00 - 1.10
Carbitol (see Diethylene glycol monoethyl ether)
Carbon bisulphide, tanks, works.....lb. .05 - .06
Carbon dioxide, liquid, cyls., works..lb. .04 - .05
Carbon tetrachloride, dms., works..lb. .08 - .09
tanks, works .....lb. .06 - .07
Cardamom seed, bgs.....lb. .90 - 1.00
Carnauba wax, bgs., No. 1 yellow, spot..lb. .47 - .48
No. 2 yellow, spot.....lb. .45 - .46
No. 3 yellow, spot.....lb. .43 - .44
No. 4 yellow, spot.....lb. .41 - .42
No. 1 chalky, spot.....lb. .43 - .44
No. 2 chalky, spot.....lb. .41 - .42
No. 3 chalky, spot.....lb. .39 - .40
No. 4 chalky, spot.....lb. .37 - .38
No. 1 grey, spot.....lb. .41 - .42
No. 2 grey, spot.....lb. .39 - .40
No. 3 grey, spot.....lb. .37 - .38
No. 4 grey, spot.....lb. .35 - .36
No. 1 flaky, spot.....lb. .45 - .46
No. 2 flaky, spot.....lb. .43 - .44
No. 3 flaky, spot.....lb. .41 - .42
No. 4 flaky, spot.....lb. .39 - .40
No. 1 yellow, f.o.b. shipping point..lb. .45 - .46
No. 2 yellow, f.o.b. shipping point..lb. .43 - .44
No. 3 yellow, f.o.b. shipping point..lb. .41 - .42
No. 4 yellow, f.o.b. shipping point..lb. .39 - .40
No. 1 chalky, f.o.b. shipping point..lb. .41 - .42
No. 2 chalky, f.o.b. shipping point..lb. .39 - .40
No. 3 chalky, f.o.b. shipping point..lb. .37 - .38
No. 4 chalky, f.o.b. shipping point..lb. .35 - .36
No. 1 grey, f.o.b. shipping point..lb. .39 - .40
No. 2 grey, f.o.b. shipping point..lb. .37 - .38
No. 3 grey, f.o.b. shipping point..lb. .35 - .36
No. 4 grey, f.o.b. shipping point..lb. .33 - .34
No. 1 flaky, f.o.b. shipping point..lb. .43 - .44
No. 2 flaky, f.o.b. shipping point..lb. .41 - .42
No. 3 flaky, f.o.b. shipping point..lb. .39 - .40
No. 4 flaky, f.o.b. shipping point..lb. .37 - .38
Carnauba wax substitute, bgs., works..lb. .20 - .25
Carnitine, bots.....lb. 1.00 - 1.10
Carob bean, bgs., futures.....lb. .65 - .66
Carotene, bots.....lb. 1.00 - 1.10
Carrageen moss, bgs.....lb. .30 - .35
Carthamin, bots.....lb. 1.00 - 1.10
Carvacrol, bots.....lb. 1.00 - 1.10
Carvacrol acetate, bots.....lb. 1.00 - 1.10
Carvone, bots.....lb. 1.00 - 1.10
Casein, bgs., c.l., works.....lb. .15 - .16
l.c.l., works .....lb. .16 - .17
Cashew nut shell liquid, bbls., works..lb. .15 - .16
Cassia bark, bgs.....lb. .30 - .35
buds, bgs.....lb. .30 - .35
lignea, bgs.....lb. .30 - .35
oil, bbls.....lb. .90 - 1.00
Castanospermine, bots.....lb. 1.00 - 1.10
Castor oil, No. 1, bbls., works.....lb. .14 - .15
No. 3, bbls., works.....lb. .13 - .14
No. 1, tanks, works.....lb. .12 - .13
No. 3, tanks, works.....lb. .11 - .12
Catalpa bean, bgs.....lb. .30 - .35
Catechu, powdered, bgs.....lb. .15 - .16
Cedar leaf oil, bbls., works.....lb. .90 - 1.00
Cedrol, bots.....lb. 1.00 - 1.10
Celery seed, bgs.....lb. .30 - .35
Cellosolve (see Ethylene glycol monoethyl ether)
Cellosolve acetate (see Ethylene glycol monoethyl ether acetate)
Celluloid scrap, bgs.....lb. .05 - .06
Cellulose acetate, dms., works.....lb. .45 - —
Cellulose acetate butyrate, dms., works..lb. .60 - —
Cellulose acetate propionate, dms., works..lb. .60 - —
Cellulose ethyl ether, dms., works..lb. .60 - —
Cellulose nitrate, dms., works.....lb. .45 - —
Cellulose propionate, dms., works..lb. .60 - —
Cellulose triacetate, dms., works..lb. .60 - —
Centaury, bgs.....lb. .30 - .35
Cerium oxalate, bots.....lb. 1.00 - 1.10
Cetyl alcohol, dms., works.....lb. .45 - —
Chalk, precip, bgs., c.l., works, frt. alld. E. of Rockies..ton.30.00 - —
l.c.l., same basis.....ton.40.00 - —
Chamomile flowers, bgs.....lb. .30 - .35
Charcoal, activated, bgs., works..lb. .15 - .16
Chaulmoogra oil, bbls., works.....lb. .90 - 1.00
Chenopodium oil, bbls., works.....lb. .90 - 1.00
Chestnut, bgs.....lb. .30 - .35
Chimaphila, bgs.....lb. .30 - .35
China clay (see Clay, China).
Chinese blue (see Blue, Chinese).
Chinese wood oil (see Tung oil).
Chinoform, bots.....lb. 1.00 - 1.10
Chinoin, bots.....lb. 1.00 - 1.10
Chloral hydrate, USP, bots.....lb. 1.50 - 1.70
Chloramine T, bots.....lb. 1.00 - 1.10
Chloranil, bots.....lb. 1.00 - 1.10
Chlorine, liquid, cyls., works.....lb. .04 - .05
Chloroacetic acid, bbls., works.....lb. .15 - .16
Chloroacetophenone, bots.....lb. 1.00 - 1.10
Chloroform, USP, bots.....lb. 1.50 - 1.70
Chloronaphthalene, dms., works.....lb. .45 - —
Chloropicrin, bots.....lb. 1.00 - 1.10
Chlorothymol, bots.....lb. 1.00 - 1.10
Chlorotoluene, dms., works.....lb. .45 - —
Chlorpicrin (see Chloropicrin)
Chlorsulphonic acid, bots., works..lb. .15 - .16
Chocolate, bgs.....lb. .30 - .35
Cholesterol, bots.....lb. 1.00 - 1.10
Chromic acid, bbls., works.....lb. .15 - .16
Chromium acetate, bbls., works.....lb. .15 - .16
Chromium fluoride, bbls., works.....lb. .15 - .16
Chromium oxide, bbls., works.....lb. .15 - .16
Chromium sulphate, bbls., works.....lb. .15 - .16
Chrysarobin, bots.....lb. 1.00 - 1.10
Cinchona, bgs.....lb. .30 - .35
Cinchonidine, bots.....lb. 1.00 - 1.10
Cinchonine, bots.....lb. 1.00 - 1.10
Cinnamic acid, bots.....lb. 1.00 - 1.10
Cinnamon, bgs.....lb. .30 - .35
Cinnamyl acetate, bots.....lb. 1.00 - 1.10
Cinnamyl alcohol, bots.....lb. 1.00 - 1.10
Citral, bots.....lb. 1.00 - 1.10
Citronella oil, bbls., works.....lb. .90 - 1.00
Citronellal, bots.....lb. 1.00 - 1.10
Citronellol, bots.....lb. 1.00 - 1.10
Citronellyl acetate, bots.....lb. 1.00 - 1.10
Civet, bots.....lb. 1.00 - 1.10
Clary, bots.....lb. 1.00 - 1.10
Clay, China, bgs., c.l., works, frt. alld. E. of Rockies..ton.30.00 - —
l.c.l., same basis.....ton.40.00 - —
Clove, bgs.....lb. .30 - .35
oil, bbls., works.....lb. .90 - 1.00
Cobalt acetate, bbls., works.....lb. .15 - .16
Cobalt chloride, bbls., works.....lb. .15 - .16
Cobalt nitrate, bbls., works.....lb. .15 - .16
Cobalt oxide, bbls., works.....lb. .15 - .16
Cobalt sulphate, bbls., works.....lb. .15 - .16
Cocaine, bots.....lb. 1.00 - 1.10
Cocoa, bgs.....lb. .30 - .35
Cocoa butter, bgs.....lb. .30 - .35
Cocoanut oil, bbls., works.....lb. .14 - .15
Cod liver oil, bbls., works.....lb. .90 - 1.00
Coffee, bgs.....lb. .30 - .35
Colchicine, bots.....lb. 1.00 - 1.10
Collodion, bbls., works.....lb. .45 - —
Colophony (see Rosin)
Columbo, bgs.....lb. .30 - .35
Congo (see Dyes)
Copaiba balsam, bbls., works.....lb. .90 - 1.00
Copper acetate, bbls., works.....lb. .15 - .16
Copper carbonate, bbls., works.....lb. .15 - .16
Copper chloride, bbls., works.....lb. .15 - .16
Copper cyanide, bbls., works.....lb. .15 - .16
Copper naphthenate, bbls., works..lb. .15 - .16
Copper nitrate, bbls., works.....lb. .15 - .16
Copper oxide, bbls., works.....lb. .15 - .16
Copper sulphate, bbls., works.....lb. .15 - .16
Coriander, bgs.....lb. .30 - .35
oil, bbls., works.....lb. .90 - 1.00
Corn silk, bgs.....lb. .30 - .35
Cornflower, bgs.....lb. .30 - .35
Cornsilk, bgs.....lb. .30 - .35
Cortex, bgs.....lb. .30 - .35
Cotton linters, bgs., works.....lb. .05 - .06
Cottonseed oil, bbls., works.....lb. .14 - .15
Coumarin, bots.....lb. 1.00 - 1.10
Cream of tartar (see Potassium bitartrate)
Creosote, bbls., works.....lb. .15 - .16
Creosote oil, bbls., works.....lb. .15 - .16
Cresol, bots.....lb. 1.00 - 1.10
Cresylic acid, bbls., works.....lb. .15 - .16
Croton oil, bbls., works.....lb. .90 - 1.00
Cubeb, bgs.....lb. .30 - .35
Cudbear, bgs.....lb. .30 - .35
Cumarin (see Coumarin)
Cumene, dms., works.....lb. .45 - —
Cupric acetate (see Copper acetate)
Cupric chloride (see Copper chloride)
Cupric cyanide (see Copper cyanide)
Cupric naphthenate (see Copper naphthenate)
Cupric nitrate (see Copper nitrate)
Cupric oxide (see Copper oxide)
Cupric sulphate (see Copper sulphate)
Curcumin, bots.....lb. 1.00 - 1.10
Cuscamidine, bots.....lb. 1.00 - 1.10
Cuscamine, bots.....lb. 1.00 - 1.10
Cuscohygrine, bots.....lb. 1.00 - 1.10
Cusparine, bots.....lb. 1.00 - 1.10
Cuspidine, bots.....lb. 1.00 - 1.10
Cyanamide, bots.....lb. 1.00 - 1.10
Cyanic acid, bots.....lb. 1.00 - 1.10
Cyanogen, bots.....lb. 1.00 - 1.10
Cyanuric acid, bots.....lb. 1.00 - 1.10
Cyclohexanol, dms., works.....lb. .45 - —
Cyclohexanone, dms., works.....lb. .45 - —
Cymene, dms., works.....lb. .45 - —
Cymogene, bots.....lb. 1.00 - 1.10
Cymol (see Cymene)
Cyprus powder, bgs.....lb. .30 - .35

ORTHOTOLUIDINE
SODIUM SULPHIDE Flake & Solid
CAUSTIC SODA Solid
GLUCOSE 45° Baumé
FORMIC ACID 90%
TRICHLORETHYLENE
ANILIN OIL
BLEACHING POWDER 70%
DIRECT BLACK
MAGNESIUM OXIDE Heavy
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RESORCIN USP Recrystallized
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Calcium Hydride—Chlorine, Liquid

Calcium hydride, dms., works.....lb. .90 • —
Glycerophosphate, NF, fib. dms...lb. 1.65 • 1.80
Hypochlorite, 100-lb. dms., dlvd. E. of Rockies..dm. 24.00 -28.50
cons. cased (45 lbs.) same basis..cs. 19.75 -21.50
Hypophosphite, dms. .....lb. .68 • —
Iodide, jars .....lb 4.12 • —
Lactate, USP, dms.....lb. .34 • .41
Laurate, bbls. .....lb. .43 • .44
Mandelate, USP, dms., works.....lb. 1.85 • 2.10
Naphthenate, liquid, 4% Cd, dms., dlvd..lb. 23½- —
6% Cd, dms., dlvd.....lb. .28¾- —
Pantothenate, dex., jars.....gram. 07½- —
Phosphate, feeding grade, bgs., works..ton. 75.50 -110.00
food grade, bbls., 10 or over, works. lb. .07 • .07¾
less than 10, works.....lb. .08 • .10
medicinal, dibasic, bbls.....lb. .13 • .18
monobasic, cryst., bgs., c.l., works, frt. equald..lb. .06½- —
l.c.l., same basis.....lb. .06¾- —
tribasic, bgs., c.l., works....100 lbs. 6.00 • —
bgs., l.c.l., works.....100 lbs. 6.95 • 7.50
Phytate, bgs., works.....lb. .22 • —
Resinate, precip., 5.5% Ca, dms..lb. .20 • —
Silicate, hydrated, bgs., c.l., works .....lb. .03½- —
l.c.l., works .....lb. .06 • —
Stearate, precip., ctns., c.l., works. lb. .45 • —
l.c.l., works.....lb. .46 • .47
Sulphate (see Gypsum).

Calcium sulphide, 76%, bgs., c.l., works ton. 45.00 • —
70%, bgs., c.l., works.....ton. 50.00 • —
luminous tins, works.....lb. 1.25 • —
Sulphocarbolate, bbls., dms.....lb. .59 • .60
Calcium-strontium sulphide, phosphorescent, dms., works.....lb. 1.06 • 1.50
fine particle size, works.....lb 1.50 • 1.75
Calendula flowers, bls.....lb. .80 • .85
Calomel, USP, cryst., dms.....lb. 1.82 • 1.83
fine powd., dms.....lb. 1.97 • 1.98
Camphor, monobromated, dms., kgs..lb. 3.10 • 3.20
Camphor, natural .....lb. No stocks.
synth., tech., bbls., 2,000 lbs. or more, works. lb. .42 • —
10 bbls. (1,500 lbs.).....lb. .44½- —
smaller lots .....lb. .45 • .55
USP, gran., powd., bbls., 2,000-lb lots..lb. .66 • —
1,000-lb. lots .....lb. .67 • —
smaller lots .....lb. .68 • —
tablets, tins, 2,000-lb. lots....lb. .83 • —
1,000-lb. lots .....lb. .84 • —
smaller lots .....lb .85 • —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs.....lb. 1.25 • 1.30
powd., bxs. .....lb. 1.40 • 1.50
Russian, bgs. .....lb 6.25 • 6.50
powd., bxs. .....lb. 6.50 • 6.75
Capsicum (see Pepper, red).
Oleoresin, NF VIII, cns.....lb 6.50 • 6.75
Caramel coloring, bbls.....gal. 1.25 • —
Caraway seed, Danish, bgs.....lb. .17 Nom
Dutch, bgs. .....lb. .18 • .18½

Carbazole, 97%, dms., ton lots, works. lb. 1.55 • —
Carbinol butyl, normal, dms., l.c.l., works..lb. .42 • —
secondary, dms., l.c.l., works...lb. .70 • —
Isobutyl, dms., c.l., works.....lb. .51 • —
l.c.l., works.....lb. .52 • —
tanks, works.....lb. .50 • —
Methylisobutyl, dms., c.l., frt. alld. E. lb. .14½- .15½
l.c.l., same basis.....lb. .15 • .16½
tanks, same basis.....lb. .13 • .14
Carbon bisulphide, 50-gal. dms., c.l., works, frt. alld. to competitive points..lb. .05¾- —
l.c.l., same basis.....lb. .06¾- —
5-gal. dms., c.l., same basis.....lb. .07¾- —
l.c.l., same basis.....lb. .08¾- —
Dioxide, cyls.....lb. .06 • .08
Tetrachloride, CP, dms., works...lb. .08½- .11
tech., dms., East zone, c.l., frt. alld. lb. .07½- —
l.c.l., frt. alld.....lb. .08 • —
West zone, c.l., frt. alld.....lb. .08 • —
USP, cbys. .....lb. .17 • .19
Cardamom fruit, bleached, bold, cs., futures..ln. 2.10 • 2.12
medium, cs. .....lo. 1.84 • 1.86
decorticated, Guatemalan, cs....lb. 1.50 • 1.55
Indian, cs. .....lb. 1.25 Nom.
green, Alleppey, bgs.....lb. 1.33 • 1.35
Seed (See Cardamom fruit, decorticated).
Carmine, No. 40, NF, bulk, 100 lbs. or more..lb. 5.50 • —
smaller lots.....lb 5.65 • 6.15

Carotene, crystals, research grade, ampuls, pure alpha or beta... 10 mg. 5.00 • —
90% beta-10% alpha, ampuls... 100 mg. 2.00 • —
bulk gram quantities.....gm. 5.00 • —
technical, 1,350,000 A units per gram. gm. .07½- —
dry powder, 3,330 A units per gram. lb. .70 • —
Emulsion (in milk), 500,000 A units per 16-oz. cn...cn. .85 • —
In vegetable oil, 250,000 A units per gram..lb. 37.80 • —
50,000 A units per gram.....lb. 7.87 • —
3,330 A units per gram.....lb. .85 • —
Carrol, bots.....lb. 13.00 -16.00
Cascara sagrada bark, bulk.....lb. .38 • .40
Case-hardening mixture, 30% gran., dms., l.c.l., dlvd..lb. 09¾- —
Casein, dom., acid-precip., bgs., 10,000 lbs. or more, ship't point..lb. .31 • .33
rennet-precip., 10,000 lbs or more same basis..lb. .24 Nom.
imp., acid-precip., ground, bgs., 100 bgs. or more..lb. .28½- .29
rennet precip., unground, 100 bgs. or more lb. .26 Nom.
smaller lots.....lb. .27 Nom.
Cassia bark, Batavia, No. 1.....lb. .45 • .46
broken, bls. .....lb. .34 • .35
stortstick, bls.....lb .26 Nom.
China, rolls, select, cs.....lb. .10 • .10½
broken, bls.....lb. .07 • .07½
Kwangsi, broken, bls.....lb. .12 • .12½
Saigon, broken, bls.....lb. .32 • .32½
medium, bls. .....lb. .39 • .40
thin, bls.....lb. .44 Nom.
Yunnan, bls. .....lb. .15 • .15½
Buds, China, bgs.....lb. .30 • .30½
Cassia fistula, bskts.....lb. .24 • .25
Castor beans, bgs., June-Aug. ship't, Brazilian ports..long ton. 155.00 • —
Oil (see Oil, castor).
Pomace, bgs., c.l., works.....ton. 27.50 • —
Castoreum, nat., cns.....lb. 39.00 • —
synthetic, cns.....lb 22.00 • —
Catechol, CP, cryst., fib. dms., works. lb. 2.00 • —
resublimed, dms., works.....lb 3.25 • —
Catnep, bls.....lb. .68 • .70
Celery seed, French, bgs., futures..lb. .25 • .25½
Indian, bgs. .....lb. .21½- .22
futures, bgs. .....lb. .21 • .21½
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .36 • —
granules, ctns., same basis....lb. .42 • —
molding composition, plain colors, pearls, special black, dms., c.l., frt. alld. lb. .47 • —
l.c.l., same basis.....lb. .49 • .51
regular black, dms., l.c.l., same basis..lb. .35 • .39
variegations, dms., l.c.l., same basis. lb. .54 • .59
Acetate-butyrate, flake, 14% butyryl content, ctns., 500 lbs. and over, works. lb. .52 • —
less than 500 lbs., works..lb. .53 • —
17.5% butyryl content, ctns., 500 lbs. and over, works..lb. .49 • —
less than 500 lbs., works..lb. .50 • —
26.5% butyryl content, ctns., 500 lbs. and over, works..lb. .53 • —
less than 500 lbs., works..lb. .54 • —
gran., 37% butyryl content, ctns., 500 lbs. and over, works. lb. .51 • .57
less than 500 lbs., works..lb. .52 • .58
48% butyryl content, ctns., 500 lbs. and over, works..lb. .57 • —
less than 500 lbs., works..lb. .58 • —
molding composition, plain colors, pearls, special black, dms., l.c.l., frt. alld..lb. .56 • .61
regular black, dms., l.c.l., same basis..lb. .47 • .51
variegations, dms., l.c.l., same basis. lb. .61 • .68
Triacetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .40 • —
Cerium hydrate, dms., works.....lb. 1.25 • —
Oxalate, NF, bbls., kgs., works..lb. .70 • .72
Oxide, optical grade, bgs., under 100 lbs., works. lb. 2.25 • —
kgs., 100-lb. lots, works.....lb. 1.75 • —
Chalk, precip., cosmetic, dentifrice, drugs, bgs., c.l., works..lb. 02¾- 03½
l.c.l., ex whse.....lb. .01 • —
paint, bgs., c.l., works.....ton. 40.00 • —
papermakers, bgs., c.l., works. ton. 32.50 -40.00
rubber makers, bgs., c.l., works.. ton. 30.00 • —
Chamomile, Hungarian, cs.....lb. .48 • .50
Roman, bls. .....lb. 1.50 • 1.75
Charcoal, hardwood, briquets, bulk, c.l., works..ton. 49.50 • —
bgs., c.l., works.....ton. 54.50 -55.50
granular, bgs., incl., c.l., works. ton. 50.50 • —
lump, bulk, c.l., works.....ton. 39.50 -42.50
bgs., extra, returnable, c.l., works. ton. 42.50 -45.50
screenings, bgs., works.....ton. 33.50 • —
Pinewood, gran., powd., bgs., c.l., works, South..ton. 40.00 • —
l.c.l., works.....ton. 50.00 -60.00
lump, bgs., c.l., works, South..ton. 25.00 • —
Willow, powd., bbls.....lb. .06 • .07
Chestnut extract, 25% tannin, bbls., c.l., works..lb. .0165- —
l.c.l., works.....lb. .0195- —
tanks .....lb. .0350- —
powd., 65% tannin, bgs., extra, c.l., works..lb. .1105- —
l.c.l., works.....lb. .1170- .1180
China clay, dom., dry-grd., air-float, 90/75% 200 mesh, bgs., c.l., works..ton. 12.50 -13.00
l.c.l., works.....ton. 13.50 -14.00
bulk, c.l., works.....ton. 9.50 -10.00
95% 200 mesh, bgs., c.l., works..ton. 10.00 -12.00
l.c.l., works.....ton. 11.00 -16.00
wet-grd., silk-bolt, 99½% 325 mesh, bulk, c.l., works..ton. 13.00 • —
paper bgs., c.l., works..ton. 15.00 • —
imported, white, lump, bulk, c.l., ex dock Balto., Boston, Norfolk, Phila..net ton. 16.00 -55.00
powd., bgs., c.l., ex dock....ton. 45.00 • —
l.c.l., ex whse.....ton. 50.00 -55.00
Chloral, dms., works.....lb. .45 • .50
Hydrate, jars.....lb. .90 • .95
Chlordane, agricultural, dms., c.l., frt. alld..lb. 1.50 • —
l.c.l., frt. alld.....lb. 1.55 • 1.70
refined, dms., c.l., frt. alld.....lb. 1.65 • —
l.c.l., frt. alld.....lb. 1.70 • 1.85
technical, cns., c.l., works.....lb. 1.55 • —
l.c.l., works.....lb. 1.60 • 1.80
Chlorinated rubber, standard, ctns., c.l., works..lb. .40 • —
l.c.l., works.....lb. .43 • —
Chlorine, liquid, cyls., c.l., works..lb. .07 • .12
l.c.l., stock points.....lb. .09 • .15½
tanks, single units, works, frt. equald..100 lbs. 2.40 • —
multiple units, 3 cars, works, frt. equald..100 lbs. 2.70 • —
2 cars, same basis.....100 lbs. 3.30 • —
1 car, same basis.....100 lbs. 3.90 • —

More and more consumers will respond to the appeal of your products—creams, pastes, powders or liquids—when you package them in WIRZ Collapsible Metal Tubes. These self-dispensing units are designed to afford full protection for their contents, to assure high eye-appeal and to add convenience in use.

Let us help you plan a WIRZ Tube that will embody all these proved merchandising features. They will give you a safety margin in competitive markets.

ESTABLISHED 1836
A. H. WIRZ Inc.

2304 W. Townsend St.
Chester, Pa.
Export Division
768 Drexel Bldg., Phila. 6, Pa.

New York 17, N. Y. 50 E. 42nd St. | Chicago 4, Ill. 80 E. Jackson Blvd. | Memphis 2, Tenn. Wurzburg Bros. | Havana Cuba Roberto Ortiz Planos | A. G. Spilker Los Angeles 14, Calif. 1709 W. 8th St. Exposition 0178—Also Danville, Calif.

Collapsible Metal Tubes • Lacquer Lining • Wax Lining • Metallic Lining • Foil Metal Tubing • Household Can Spouts • Applicator Pipes • Compression Molding

Chloroform, tech., dms.....lb. .20 - .23
USP, dms.....lb. .30 - .33
Chloro(4)-2-Toluidine, bbls. .....lb. 1.38 - —
Chloropicrin, com'l, bots., ex whse..lb. 1.25 - —
cyls., 180-lbs., works, frt. alld..lb. .50 - —
100-lbs., same basis.....lb. .82 - —
25-lbs., ex whse.....lb. 1.00 - —
Cholesterol, USP, fib. dms., 100-lb. lots.
lb.12.00 -14.39
jars, dms., smaller lots.....lb.14.75 -15.55
Choline chloride, fib dms., works..lb. 8.00 - 8.10
feed grade, fib. dms., works....lb. 2.20 - —
Dihydrogen citrate, fib. dms., works,
lb. 3.00 - 3.10
Chromium acetate, powd., 72% Cr.,
bbls., works..lb. No stocks
solut., 7½%, bbls., cs.....lb. .09¼- —
8¾%, bbls., cs.....lb. 09¾- —
Cake, bulk, c.l., works.....ton.16.00 - —
Fluoride, bbls., works.....lb. .24 - .27
Green (see Green, chrome).
Oxide (see Green, chromium oxide).
Oxate, bbls. .....lb. .54 - —
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).
Chrysarobin, bots. .....lb. 7.11 - —
Cinchona bark, Usr. reu, quill, 30-in.,
cs..lb. 1.26 Nom.
yellow, broken, bgs.....lb. .35 - .40
Cinchonidine, small cryst., cns., 100
ozs..oz. .95 - —
Cinchonine, large cryst., cns., 100 ozs.
oz. .60 - —
small cryst., cns., 100 ozs.....oz. .65 - —
Sulphate, NF, cns., 100 ozs.....oz. .42 - —
Cinchophen, NF, heavy, dms., works.
lb. 4.20 - 4.30
standard, dms., works..... lb. 4.00 - 4.10
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, cbys., cns., dms.....lb. .75 - 1.25
Cinnamon, Ceylon, No. 2, bls.....lb. .36 - .37
Citral, bots., cns..... lb. 5.75 - 5.00
Citronellal, bots., dms.....lb. 2.75 - 7.75
Citronellol, bots., dms.....lb. 3.85 - 4.75
Clover tops, red, dom., bgs.....lb. .58 - .60
imported, bgs .....lb. No stocks
Cloves, Madagascar, bls.....lb. .09 - .09½
Penang, bls. .....lb. .08½- .09
Zanzibar, bls. .....lb. .16 - .16½
Coaltar coal-gas, water-gas crude,
resale, dms., c.l., works..dm.10.60 - —
l.c.l., works.....dm.11.10 - —
tanks, works.....gal. .14 - —
refd., bbls., c.l., works.....bbl.11.10 - —
l.c.l., works.....bbl.11.60 - —
tanks, works.....gal. .15 - —
Cobalt acetate, bbls., kgs., dlvd..lb. .83¾- —
Carbonate, powd., bgs., works....lb. 1.58 - —
feed grade, 49½% Co, kgs.....lb. 1.58 - —
Chloride, kgs., works.....lb. .87½- —
feed grade, 24.5% Co, kgs.....lb. 1.25 - —
Hydrate bbls. .....lb. 2.04 - —
feed grade, 62% Co, kgs.....lb. 2.04 - —
Linoleate, paste, 6% Co, dms....lb. .56 - —
solid 8% Co, dms.....lb. .65 - —
8% Co, dms.....lb. 61¼- —
Naphthenate, solid, 6% Co, dms.,
dlvd..lb. .87 - —
Nitrate, feed grade, 20.4% Co, bbls,
lb. 75¾- —
Oxide black, kgs.....lb 1.27½- 1.80
Phosphate feed grade, 31% Co, kgs,
lb. 1.20½- —
Resinate, precip., 7.5% Co, dms...lb. .38½- —
Sulphate dms. .....lb. .65 - —
feed grade, 21% Co kgs.....lb. 1.00 - —
Cobalt salts, feed grade quotations are f.o.b.
Phila., Cleve. or N. Y.
Cobalt-ammonium sulphate, 14% Co,
kgs..lb. .75 - —
Cocaine hydrochloride, cns., 100-oz.
lots..oz. 9.75 - —
Cochineal, gray, bgs.....lb. .67 - .68
silver, Teneriffe, bgs.....lb. .69 - .70
Cocillana bark, bgs.....lb. .19 - .20
Cocoa butter, bgs. .....lb. .96 - .97
Codeine, cns., 100 ozs..... .....oz.13.25 - —
Hydrochloride, crs., 100 ozs.....oz.11.85 - —
Phosphate, cns., 100 ozs.....oz.10.25 - —
Sulphate, cns., 100 ozs.....oz.10.75 - —
Codliver oil (see Oil, codliver).
Cohosh black, root, bls.....lb. .20 - .21
Blue, bls. .....lb. .19 - .20
Colchicum seed, bgs., futures.....lb. 3.50 - 4.00
Colchicine, bots., cns.....oz. No stocks
Collodion, USP, dms.....lb. .24 - .29
Flexible, USP, dms.....lb. .25½- .30¼
Colocynth pulp, bls.....lb. .50 - .52
Colombo root, bls.....lb. .18 - .19
Coltsfoot leaves, bgs.....lb. .43 - .44
Condurango bark, bgs., futures.....lb. .20 - .21
Copaiba balsam, cns., dms.....lb. .65 - .66
Copper acetate, cupric, bbls., works
lb. .28 - —
smaller containers, works.....lb. .29 - .30
Carbonate, 52-54%, bbls.....lb. .24 - .26
Chloride, anhyd., bbls.....lb. .27 - —
crystals, bbls. .....lb. .18¾- —
Cyanide, tech., bbls.....lb. .43 - —
Hydrate, dms., dlvd. E. Miss.....lb. .26¼- .26¾
Metal, electrolytic .....lb. .21½- —
Naphthenate, liquid, 8% Cu, dms.,
dlvd..lb. .22½- —
Nitrate, tech., cryst., bbls., works,
lb. .25 - .28
Oleate, liquid, 8.5% Cu, bbls.....lb. .33 - —
solid, 10% Cu, bbls.....lb. .45¾- —
12.5% Cu, bbls.....lb. .44½- —
Oxide, black, bbls., works.....lb. .28 - .30
red, com'l, bbls., works.....lb. .30 - .32½
Oxychloride-sulphate, bgs., frt. ald.lb. .21 - .24
Resinate, precip., 8.5% Cu, dms..lb. .21½- —
Stearate, bgs., works.....lb. .39½- —
Sulphate, cryst., 99%, bgs., c.l.,
works..100 lbs. 7.00 - —
l.c.l. .....100 lbs. 7.85 - 8.00
monohydrated, 85%, dms., c.l., dlvd.
100 lbs.12.55 -12.80
l.c.l., dlvd.....100 lbs.13.55 - —
tribasic, dealers, bgs., works, c.l.
lb. .21½- .22½
l.c.l., works.....lb. .23 - .23½
Copperas, cryst., gran., bgs., c.l.,
works..ton.17.00 - —
l.c.l., works.....100 lbs. 1.75 - 2.00
bbls., c.l., works.....ton.20.00 - —
bulk, c.l., works.....ton 14.00 - —
Copra, c.i.f. Pacific ports.....ton.275.00 - —
Atlantic or Gulf ports.....ton.281.00 - —
Coriander seed, Argentine, bgs, futures.
lb. .05½- .06
Italian, bgs. .....lb. .06 - .06½
Persian, bgs .....lb. .21½- .22
Moroccan, bgs. .....lb. .06¾- .07¼
Corn sugar, tanners, chipped, paper
bgs., c.l., 60,000 lbs. min..100 lbs. 6.50 - —
bbls., c.l., same basis..100 lbs. 6.64 - —
Syrup, 42°, bbls., c.l.....100 lbs. 6.95 - —
l.c.l. .....100 lbs. 7.10 - —
Cornsilk, bls. .....lb. .19 - .20
Corrosive sublimate, NF, cryst., dms.,
50 lbs. or more..lb. 1.68 - —
gran., powd., dms., 50 lbs. or
more..lb. 1.53 - —
Cottonroot bark, bls.....lb. .39 - .42
Cottonseed hull ash, 32-36% potash,
bgs., dlvd..unit-ton. 1.75 - —
Meal, 41% protein, sacked, c.l., mills,
S. E..ton.88.00 -90.00
Coumarin, cns., 25 lbs.....lb. 3.00 - —
smaller lots .....lb. 3.05 - 3.15
Cramp bark, NF, bls.....lb. .80 - .85

Cream of tartar, dom., USP, gran.
or powd., bbls., 5,000 lbs. one
shipt..lb. .35½- —
bbls., kgs., smaller lots.....lb. .36 - .36½
Creosote, beechwood, bots., cbys....lb. 1.15 - 1.20
Coaltar, crude, tanks, works.....gal. .19½- —
refined, dms., c.l., works.....gal. .38½- —
l.c.l., same basis.....gal. .39 - —
tanks, same basis.....gal. .25 - —
solution, 80% tanks, works..gal. .20 - —
Hardwood, NF, bots., cbys.....lb. .85 - —
Pinewood, dms.....gal. .31 - .32
Creosote carbonate, bots., cbys.....lb. 2.35 - 2.40
Cresol, tech., dms., c.l., works, frt.
equald..lb. .19 - .19¾
l.c.l., same basis.....lb. .19¼- .19½
tanks, same basis.....lb. .18¼- .18½
USP, dms., c.l., same basis.....lb. .18¾- .19¼
l.c.l., same basis.....lb. .19¼- .19¾
tanks, same basis.....lb. .18 - .18½
Crotonaldehyde, 91-93% dms., 55 and
110 gals., l.c.l., works..lb. .16½- .17
5 and 10-gals., l.c.l., works....lb. .22 - —
Cryolite, nat., dealers, bgs., bbls., c.l.,
works..100 lbs.12.75 - —
bbls., l.c.l., works.....100 lbs.13.75 -14.75
Cube root, powd., 5% rotenone, bbls.,
works, .lb. .38 - —
4% rotenone, bbls., works.....lb. .30½- —
Cubeb berries, XX, bgs.....lb. .45 - .50
powd., cs. .....lb. .65 - .70
Culvers root, bbls.....lb. .60 - .70
Cumin seed, Cyprian, bgs.....lb. No stocks
Indian, bgs, futures.....lb. .40 - .41
Italian, bgs. .....lb. .08½- .09
Moroccan, bgs.....lb. No stocks
Persian, bgs. .....lb. .22½- .23
Syrian, bgs. .....lb. .22 Nom.

Cutch, extract, 55% tan., bgs., ex
dock..lb. .09½- —
Cyanamide, fertilizer mixing grades,
20.6% N., gran., bulk, Niagara
Falls, Ont., contracts, bulk..
unit-ton. 2.55 - —
pulv., 21% N., bgs., same basis.
unit-ton. 2.45 - —
Cyclohexane, tech., dms., c.l., works.lb. .12½- —
l.c.l., works .....lb. .13 - —
tanks, works .....lb. .11½- —
Cyclohexanol, tech., dms., c.l., works.lb. .21½- —
l.c.l., works .....lb. .22 - —
tanks, works .....lb. .20 - —
Cyclohexanone, tech., dms., c.l., works.
lb. .26½- .30
l.c.l., works.....lb. .27 - .31
tanks, works.....lb. .25 - .29
Cyclohexylamine, dms., works.....lb. .32 - —
Cyclopropane, USP, cyls., dlvd...gal. .27 - —

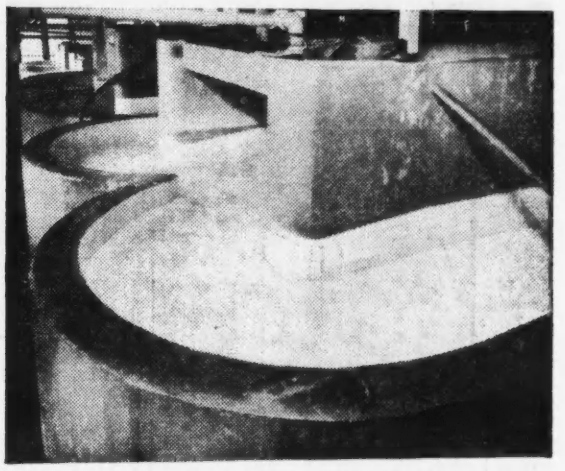
D

Damiana leaves, bls.....lb. .48 - .50
Dandelion root, bls.....lb. .50 - .55
DDT, fiber, dms., c.l., works.....lb. .34 - —
ton lots, works.....lb. .36 - —
dms., smaller lots.....lb. .42½- —
Decanol, normal, tech., dms., dlvd..lb. .35 - —
Deertongue leaves, bls.....lb. .35 - .40
Defluorinated phosphate, 65% b.p.l.,
paper bgs., works..ton.41.65 -52.50
Rock, paper bgs.. works.....ton.34.25 - —

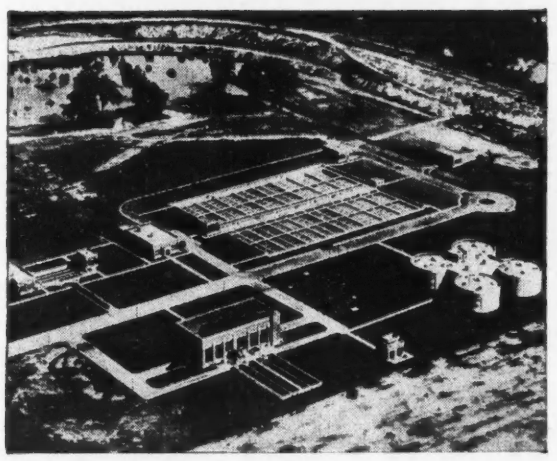
Degras, common, bbls.....lb. .10 - .11
Neutral, less 2% ffa., bbls.....lb. .16 - .18
over 2% ffa., bbls.....lb. .15 - .17
Derris root (see Cube root).
Dextrin, British gum, bgs., c.l..100 lbs. 8.69 - —
Chicago .....100 lbs. 8.08 - —
l.c.l. .....100 lbs. 8.84 - —
Corn, Canary, bgs., c.l.....100 lbs. 8.43 - —
Chicago .....100 lbs. 7.82 - —
l.c.l. .....100 lbs. 8.58 - —
dark, bgs., c.l. .....100 lbs. 8.53 - —
Chicago .....100 lbs. 7.92 - —
l.c.l. .....100 lbs. 8.68 - —
white, bgs., c.l.....100 lbs. 8.28 - —
Chicago .....100 lbs. 7.67 - —
l.c.l. .....100 lbs. 8.43 - —
Above prices are for dextrin in
paper bgs.; cotton bgs., 17c.
higher.
Potato, dom., bgs.....lb. 12½- .13
imp., bgs.....lb. .116- 1138
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grade, bots.....lb. 5.20 - 5.55
laboratory grade, bots....100 grams 4.50 - —
tech., bots., works.....lb. 3.00 - —
Diamyl ether (see Ether, amyl).
Phthalate, dms., tanks.....lb. No prices
Diamylphenols, mixed, dms., c.l.,
works..lb. .31 - —
l.c.l., works.....lb. .32 - —
tanks, works.....lb. .30 - —
Dianisidin, dms. .....lb. 1.54 - —
Diatomaceous earth, dom., bgs., c.l.,
Atlantic coast..ton.26.00 -32.00
California .....ton.38.00 -40.00
l.c.l., ex whse.....ton.80.00 - —

HOW CAN ISCO PRODUCTS WORK FOR YOU?

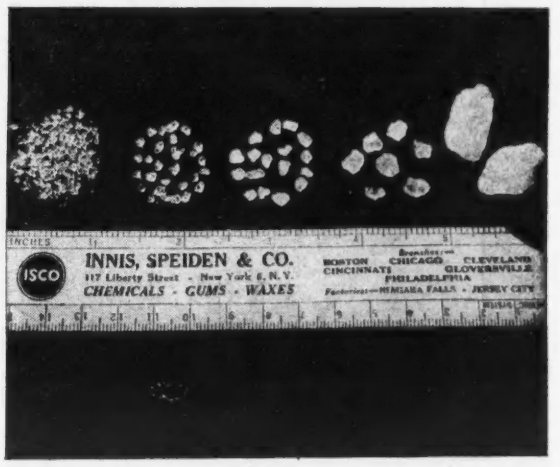
In the Chemical and Allied Industries



Chloride of Lime—$CaCl(ClO)\cdot 4H_2O$. 35-37% Available Chlorine. Has many uses in sanitation, public health and industry. Used for bleaching and processing paper, textiles, in laundry bleaching, wherever sterilization is a problem such as water, dairies, etc., in manufacture of textiles, pulp, paper, chemicals, etc. Above, as used in paper processing.



Ferric Chloride—Sold in lumps and crystals in 500 lb. bbls. **Ferri-Clgor** is the ISCO coagulant for sewage and industrial wastes. Provides effective, economical means of increasing efficiency of the ordinary sedimentation plant. Coagulant for wide range of industrial wastes. Low-cost, powerful sludge coagulant. Write for free booklet. Above, typical sewage treatment plant using Ferrichlor.



Paradichlorobenzene—Used in manufacture of dyestuffs, intermediates, organic chemicals, insecticidal & germicidal compositions, deodorant, soil fumigant, mothproofing. Available in drums, barrels and kegs. Isco also has naphthalene and orthodichlorobenzene. Above, mixed fines; fine crystals; rice crystals; pea crystals; nuggets.

You'll like ISCOoperation!

It's one thing to supply chemicals, gums and waxes, another to specify the right material for the right product or process. Here at Innis Speiden we take pride in being able to supply you with the right material, when you want it and where you want it. Our sales force will cooperate with you from the beginning of your inquiry. Our laboratories are at your service on any problem involving an Isco product. That's why we say: "You'll like ISCOoperation!"

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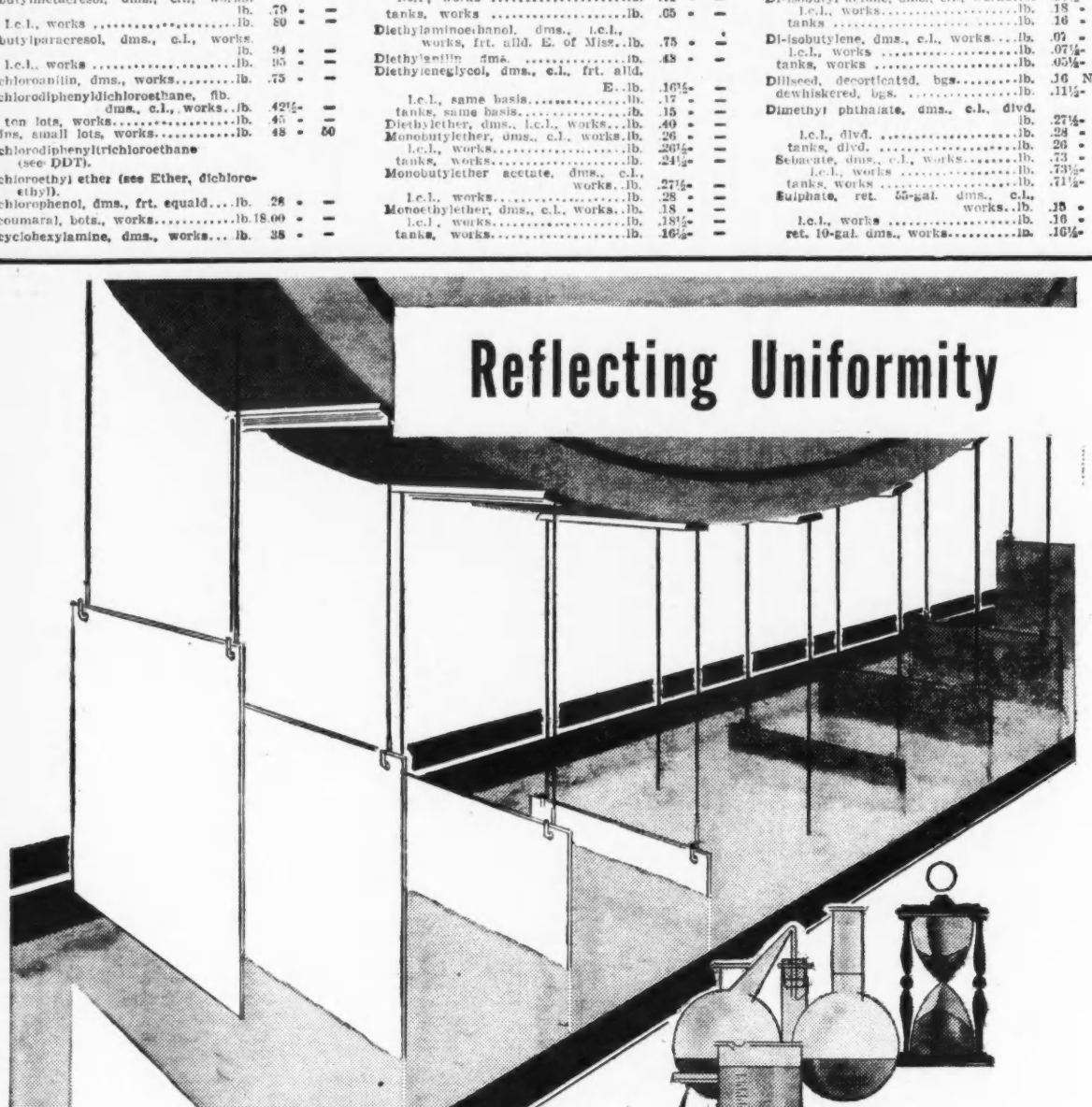
CHICAGO · CLEVELAND · PHILADELPHIA

Diatomaceous Earth—Dyes, Coaltar

Diatomaceous earth, dom., purified, bgs., c.l., Atlantic coast..ton 62.00 - —
California .....ton 50.00 - —
l.c.l., ex whse.....ton 90.00 - —
Imported, Algerian, bgs., c.l., Atlantic coast, ton No prices
Mexican, white, bgs., c.l., Atlantic coast..lb. .03 - —
l.c.l., Atlantic coast.....lb. .06 - —
Dibutyl phthalate, dms., c.l.....lb. .37 - .38½
l.c.l. .....lb. .38 - .39
tanks .....lb. .35½- .37
Sebacate, dms., c.l., works.....lb. .68½- —
l.c.l., works .....lb. .69 - —
tanks, works .....lb. .67 - —
Tartrate, dms., works, frt. alld...lb. .92 - 1.02
Dibutylamine, dms., c.l., works....lb. .52½- —
l.c.l., works.....lb. .53½- —
tanks, works.....lb. .50 - —
Dibutylmetacresol, dms., c.l., works. lb. .79 - —
l.c.l., works .....lb. .80 - —
Dibutylparacresol, dms., c.l., works. lb. .94 - —
l.c.l., works .....lb. .95 - —
Dichloroanilin, dms., works.....lb. .75 - —
Dichlorodiphenyldichloroethane, fib. dms., c.l., works..lb. .42½- —
ton lots, works.....lb. .45 - —
tins, small lots, works.....lb. .48 - .50
Dichlorodiphenyltrichloroethane (see DDT).
Dichloroethyl ether (see Ether, dichloroethyl).
Dichlorophenol, dms., frt. equald....lb. .28 - —
Dicoumaral, bots., works.....lb. 18.00 - —
Dicyclohexylamine, dms., works....lb. .35 - —
Dicyclohexylphthalate, fib. dms., c.l., works..lb. .42½- —
l.c.l., same basis.....lb. .43 - —
Diethanolamine, dms., c.l., frt. alld. E..lb. .26 - —
l.c.l., same basis.....lb. .27 - —
smaller containers, same basis....lb. .30 - —
tanks, same basis.....lb. .24½- —
Diethyl carbonate, dms., l.c.l.....lb. .46½- —
Oxalate, dms., c.l.....lb. .35½- —
l.c.l. .....lb. .36½- —
tanks .....lb. .34 - —
Phthalate, dms., c.l., frt. equald..lb. .31½- .33½
dms., l.c.l., frt. equald.....lb. .32½- .34
tanks, frt. equald.....lb. .30 - .32
Sulphate, dms., c.l., works.....lb. .14 - —
l.c.l., works .....lb. .15 - —
tanks, works .....lb. .13 - —
Diethylamine, dms., c.l., works....lb. .69 - —
l.c.l., works .....lb. .71 - —
tanks, works .....lb. .65 - —
Diethylaminoethanol, dms., l.c.l., works, frt. alld. E. of Miss..lb. .75 - —
Diethylgeitin dms. .....lb. .48 - —
Diethyleneglycol, dms., c.l., frt. alld. E..lb. .16½- —
l.c.l., same basis.....lb. .17 - —
tanks, same basis.....lb. .15 - —
Diethylether, dms., l.c.l., works...lb. .40 - —
Monobutylether, dms., c.l., works..lb. .26 - —
l.c.l., works.....lb. .26½- —
tanks, works.....lb. .24½- —
Monobutylether acetate, dms., c.l., works..lb. .27½- —
l.c.l., works.....lb. .28 - —
Monoethylether, dms., c.l., works..lb. .18 - —
l.c.l., works.....lb. .18½- —
tanks, works.....lb. .16½- —
Diethyleneglycol monoethylether acetate, dms., c.l., works..lb. .24 - —
l.c.l., works.....lb. .24½- —
Monomethylether, dms., c.l., works. lb. .22 - —
l.c.l. .....lb. .22½- —
tanks .....lb. .20½- —
Diethylenetriamine, dms., c.l., works.. lb. .51½- —
l.c.l., works.....lb. .52 - —
tanks, works.....lb. .50 - —
Diethylstilbestrol, bots.....kilo. 300.00 -330.00
Digitalin, cryst., bots..... gram. 18.00 -19.00
powd., bots. ..... gram. 1.25 - 1.75
Digitalis leaves, dms.....lb. .95 - 1.00
Diglycol laurate, dms.....lb. .33 - —
Oleate, light, bbls., c.l.....lb. .38 - —
Stearate, bbls., c.....lb. .40 - —
Dihydroxydichlorodiphenylmethane, dms..lb. .95 - 1.00
smaller containers .....lb. 1.05 - 1.40
Di-isobutyl ketone, dms., c.l., works..lb. .17½- —
l.c.l., works.....lb. .18 - —
tanks .....lb. .16 - —
Di-isobutylene, dms., c.l., works....lb. .07 - —
l.c.l., works .....lb. .07½- —
tanks, works .....lb. .05½- —
Dillseed, decorticated, bgs.....lb. .16 Nom.
dewhiskered, bgs. .....lb. .11½- .12
Dimethyl phthalate, dms., c.l., dlvd. lb. .27½- —
l.c.l., dlvd. .....lb. .28 - —
tanks, dlvd. .....lb. .26 - —
Sebacate, dms., c.l., works.....lb. .73 - —
l.c.l., works .....lb. .73½- —
tanks, works .....lb. .71½- —
Sulphate, ret. 55-gal. dms., c.l., works..lb. .15 - —
l.c.l., works .....lb. .16 - —
ret. 10-gal. dms., works.....lb. .16½- —
Dimethylamine, anhyd., cyl., works, basis 100%..lb. .38½- .48½
25%-40%, dms., c.l., works, basis 100%..lb. .38 - —
l.c.l., works, basis 100%.....lb. .38½- —
tanks, works, basis 100%.....lb. .33 - —
Dimethylanilin, dms., c.l.....lb. .21 - .23½
l.c.l. .....lb. .23 - .26½
Dinitroaniiin dms., frt. equald....lb. .50 -
Dinitrobenzene, bbls.....lb. .16 - .21½
Dinitrochlorobenzene, dms.....lb. .14 - .17
Dinitrophenol, bbls.....lb. .22 - .26½
Dinitrotoluene, oily, dms.....lb. .07 - .08½
refd., dms.....lb. .17½- .18½
Dinonylnaphthalene, tanks, works..lb. .15 - —
Dioctyl phthalate, dms., c.l., frt. alld. lb. .433 - —
l.c.l., frt. alld.....lb. .443 - —
tanks, frt. alld.....lb. .418 - —
Diorthotolylguanidin, dms., ton lots, dlvd..lb. .48 - —
smaller lots, dlvd.....lb. .50 - —
Dioxan, dms., c.l., frt. alld.....lb. .25 - —
l.c.l., same basis.....lb. .25½- —
tanks, same basis.....lb. .22½- —
Dip oil (see Tar acid oil).
Dipentene, dest.-dist., dms., incl., c.l., works, South.....gal. .35 - .38
l.c.l., same basis.....gal. .36 - .38
N. Y. whse.....gal. .50 - —
steam-dist., dms., c.l., whse., NYC. gal. .59 - —
l.c.l., same basis.....gal. .73 - .92
Diphenyl, bbls., c.l., works.....lb. .15 - —
l.c.l., works .....lb. .16 - .20
Oxide, perfume grade, cns.....lb. .48 - .61
dms .....lb. .45 - .56
Diphenylamine bbls. .....lb. .25 - —
Diphenylguanidin, dms., ton lots...lb. .35 - —
smaller lots.....lb. .40 - —
Ditertiarybutylmetacresol, dms., c.l., works..lb. .29 - —
l.c.l., works .....lb. .30 - —
Ditertiarybutylparacresol, dms., c.l., works..lb. .94 - —
l.c.l., works .....lb. .95 - —
Divi-divi 43% tannin, bgs., bbls., c.l., U.S. ports, ex dock..ton. 64.00 -66.00
Divinylbenzene, 18%, dms., c.l., wks..lb. .25 - —
l.c.l., works.....lb. .26 - —
tanks, works.....lb. .24 - —
40%, dms., c.l., works.....lb. .69 - —
l.c.l., works.....lb. .70 - —
Doggrass root, dom., cut, bls.....lb. .20 - .22
imp., N.F., cut, bls.....lb. .32 - .33
Dogwood, Jamaica, bark, bls.....lb. .12 - .14
Dragon's blood, drops, cs.....lb. .45 - .47
mass, cs.....lb. 1.50 - 1.55
reeds, cs..... No stocks
Dyes, coaltar, certified colors for foods, drugs and cosmetics, 5-lb. and 1-lb. lots:—
Blue, FD&C, No. 1, cns.....lb. 15.75 -16.30
No. 2, cns.....lb. 15.75 -16.30
Green, FD&C, No. 1, cns.....lb. 15.75 -16.30
No. 2, cns.....lb. 20.55 -21.15
No. 3, cns.....lb. 32.65 -33.25
Orange, FD&C, No. 1, cns.....lb. 3.40 - 3.50
No. 2, cns.....lb. 4.30 - 4.40
Red, FD&C, No. 1, cns.....lb. 7.00 - 7.25
No. 2, cns.....lb. 3.70 - 3.80
No. 3, cns.....lb. 20.55 -21.15
No. 4, cns.....lb. 6.65 - 6.95
No. 32, cns.....lb. 4.90 - 5.00
Yellow, FD&C, No. 1, cns.....lb. 9.70 -10.25
No. 5, cns.....lb. 3.10 - 3.15
No. 4, cns.....lb. 3.10 - 3.15
No. 5, cns.....lb. 3.70 - 3.80
No. 6, cns.....lb. 3.70 - 3.80
Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots:—
Black, D&C, No. 1, cns.....lb 9.15 - —
Blue, D&C, No. 4, cns.....lb. 13.55 - —
Brown, D&C, No. 1, cns.....lb 13.55 - —
Green, D&C, No. 5, cns.....lb. 13.55 - —
No. 6, cns.....lb. 13.55 - —
No. 7, cns.....lb. 12.45 - —
Orange, D&C, No. 3, cns.....lb 9.15 - —
No. 4, cns.....lb 16 85 - —
No. 5, cns.....lb. 4.75 - —
No. 10, cns.....lb. 17 40 - —
Red, D&C, No. 8, cns.....lb. 3.10 - —
No. 9, cns.....lb. 3.10 - —
No. 10, cns.....lb. 2.50 - —
No. 11, cns.....lb. 1.85 - —
No. 12, cns.....lb. 2.50 - —
No. 17, cns.....lb. 9.15 - —
No. 18, cns.....lb. 20.15 - —
No. 21, cns.....lb. 3.95 - —
No. 22, cns.....lb. 9.15 - —
No. 28, cns.....lb. 20.70 - —
No. 33, cns.....lb. 14 65 - —
Violet, D&C, No. 1, cns.....lb. 13.55 - —
No. 2, cns.....lb. 13.55 - —
Yellow, D&C, No. 7, cns.....lb. 9.15 - —
No. 8, cns.....lb. 9.15 - —
No. 10, cns.....lb. 11.35 - —
No. 11, cns.....lb. 11.75 - —
No. 22, cns.....lb. 9.15 - —
No. 23, cns.....lb. 14.65 - —
No. 37, cns.....lb. 13.55 - —
Dyes, coaltar, certified colors for external use drugs and cosmetics, 1-lb. lots:—
Green, Ext. D&C, No. 1, cns.....lb. 13.55 - —
Red, Ext. D&C, No. 1, cns.....lb. 11.35 - —
No. 3, cns.....lb. 24.00 - —
Blue, Ext. D&C, No. 1, cns.....lb. 13.55 - —
Yellow, Ext. D&C, No. 1, cns....lb. 9.15 - —
Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype)
20 Chrysodine G.....lb. .46 - .48
27 Orange G.....lb. .58 - .61
31 Amido naphthol red G.....lb. .50 - .73
36 Alizarine yellow 2G.....lb. .49 - —
40 Alizarine yellow R.....lb. .83 - —
57 Amido naphthol red 6B.....lb. .83 - .99
79 Ponceau R.....lb. .58 - —
151 Orange II.....lb. .36 - —
165 Red lake C.....lb. 1.05 - —
176 Red lake A.....lb. .68 - .73
179 Azo rubine.....lb. .79 - —
180 Diamond blue 3B.....lb. .69 - .73
185 Cochineal red A.....lb. .73 - —
202 Chrome blue black R.....lb. .46 - —
203 Chrome black T.....lb. .54 - —
208 Sulphon acid blue R.....lb. .72 - .73
216 Acid alizarin red B.....lb. .65 - —
231 Resorcin brown.....lb. .70 - 1.00
246 Naphthol blue black.....lb. .68 - .61
278 Benzo fast red 8BL.....lb. 2.73 - 3.33
280 Sulphon cyanine 5R extra...lb. .84 - .99
293 Diamond black F.....lb. 1.03 - 1.07
304 Nerol 2B.....lb. 1.51 - —
326 Benzo fast orange S.....lb. 1.33 - 2.23
332 Bismarck brown R.....lb. .59 - .61
365 Chrysophenine .....lb. 1.75 - —
382 Diamine scarlet B.....lb. 1.33 - —
401 Diamine black BH.....lb. .44 - .46
406 Benzo blue 2B conc.....lb. .85 - 1.21
419 Diamine fast red F.....lb. .88 - 1.07
420 Diamine brown M.....lb. .69 - .84
448 Benzo purpurine 4B.....lb. .88 - —
518 Diamine sky blue FF.....lb. 1.82 - —
561 Trisulphon brown B.....lb. 1.45 - —
581 Direct deep black EW extra.lb. .67 - —
593 Diamine green B.....lb. .80 - —
598 Congo brown G.....lb. 1.20 - —
620 Sun yellow .....lb. .69 - —
629 Xylene light yellow.....lb. 1.45 - —
640 Tartrazine .....lb. 1.20 - —
655 Auramine .....lb. 1.52 - —
657 Malachite green .....lb. 1.73 - —
662 Brilliant green .....lb. 2.30 - —
667 Brilliant milling green B....lb. 3.03 - —
671 Glaucine .....lb. 1.43 - —
680 Methyl violet B.....lb. .95 - —



LIQUID DRIERS
Uversol Liquids
Linoresinate Liquids
Linoleate Liquids
Lithos
Octasols
Pastes
Pastalls

SOLID DRIERS
Uversol Solids
Linoresinate Solids
Linoleate Solids
Soyate Solids
Fused Resinates

POWDERED DRIERS
Precipitated Resinates
Drying Salts:
Cobalt
Lead
Manganese
Zinc

HARSHAW

HARSHAW DRIERS

Every precaution is taken to maintain and protect the high quality and dependable uniformity of Harshaw Driers. The reflection of quality in your protective coatings is of equal importance to both of us. All Harshaw Driers are checked carefully for standard requirements of metal content, viscosity, color and stability. Continue to send your orders for Driers to the nearest Harshaw Branch for prompt shipment from their stocks.

THE HARSHAW CHEMICAL CO.
1945 E. 97th Street, Cleveland, Ohio
BRANCHES IN PRINCIPAL CITIES

Dyes, coaltar, for general use in cloth dycing (numbers are those of the Colour Index or prototype).
684 Crystal violet .....lb. 1.91 - —
686 Formyl violet S4B.....lb. 1.41 - —
720 Chrome azurol B.....lb. 3.03 - —
722 Victoria blue B.....lb. 2.48 - —
737 Wool green S.....lb. 1.98 - —
749 Rhodamine B .....lb. 3.85 - —
814 Chloramine yellow .....lb. 2.33 - —
841 Safranine .....lb. 2.17 - —
865 Nigrosine WSJ 78.....lb. .56 - —
922 Methylene blue GXX.....lb. 1.28 - —
969 Hydron blue R.....lb. .67 - —
978 Sulphur black T extra.....lb. .26½- —
1027 Alizarin VI .....lb. .64 - —
1031 Alizarin red S.....lb. 2.30 - —
1054 Alizarin saphirol B.....lb. 2.40 - —
1078 Alizarin cyanine green.....lb. 2.42 - —
1085 Alizarine blue black B.....lb. 2.13 - —
1096 Indanthrene golden orange G, single paste..lb. 1.81 - —
double paste .....lb. 3.02 - —
1099 Indanthrene dark blue BO, single paste..lb. 1.45 - —
1101 Caledon jade green.....lb. 2.32 - —
1106 Indanthrene blue RS, single paste..lb. 2.12 - —
double paste .....lb. 2.13 - —
1113 Indanthrene blue GCD, double paste..lb. 1.60 - —
1150 Indanthrene olive R, single paste..lb. 1.08 - —
1151 Indanthrene brown R, single paste..lb. 1.65 - —
double paste .....lb. 3.29 - —
1212 Indanthrene red violet RH, single paste..lb. 1.54 - —
1217 Helindon orange R, single paste. lb. 1.57 - —
p-4 Acid anthracine brown PG..lb. 2.30 - —
p-11 Anthracene chromate brown EB. lb. 1.08 - —
p-24 Benzo fast black L.....lb. 1.80 - —
p-80 Diazo brilliant scarlet ROA..lb. 2.61 - —
p-202 Zambesi black V.....lb. .90 - —
p-241 Celliton scarlet B.....lb. 1.37 - —
p-313 Naphthol AS-SW.....lb. 2.74 - —

Dyes coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works at warehouse.
Black, blue, No. 550.....lb. .67 - —
Jet, No. 551.....lb. .72 - —
Brown, R, conc.....lb. 1.14 - —
Orange R, brilliant.....lb. .73 - —
Red, 4 B, conc.....lb. 1.13 - —
Yellow, C .....lb. .96 - —
FN, conc. .....lb. 1.00 - —

Dyes, coaltar, for stains, spirit-soluble, same basis
Auramine, O .....lb 1.54 - —
Black, basic, blue.....lb. 1.00 - —
Jet .....lb. 1.00 - —
Blue, methylene, 2 B, conc....lb. 1.33 - —
Brown, Bismarck, R, conc....lb. .70 - —
Chrysodine, R, extra.....lb. .50 - —
Y, extra .....lb. .54 - —
Fuchsine, conc .....lb. 2.63 - —
Green, Malachite, conc.....lb. 1.70 - —
Rhodamine, B .....lb. 4.37 - —
Safranine, Y, conc.....lb. 2.19 - —
Violet, methyl, B.....lb. .99 - —

Dyes, coaltar, for stains, water-solubie, same basis
Black, acid blue, B, extra.....lb. .67 - —
Orange, acid, Y, conc.....lb. .40 - —
Rhodamine, azo- R, extra, conc. lb. .79 - —
Scarlet, croceine, MOO.....lb. 1.28 - —
Yellow, azo-, conc.....lb. .89 - —
Fast light, 3 G, extra.....lb. 1.85 - —
Methanil, conc. .....lb. .77 - —

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

E

Echinacea root, bls.....lb. .45 - .50
Egg albumen (see Albumen).
Yolk, dried, dom., bbls.....lb. .93 - 1.00
tanners, bbls. .....lb. .06 - .07
Elder flowers, bright, bls.....lb. .45 - .50
Elecampane root, bls.....lb. .30 - .35
Elm bark, grinding, bls.....lb. .33 - .36
powd., bbls., bxs.....lb. .48 - .54
select, bndls. .....lb. .65 - .70
Emetine hydrochloride, bots.....oz. 42.50 -48.00
Ephedra herb, bls. .....lb. 20 - .21
Ephedrine, synthetic, USP, anhydrous, bots., 100 ozs..oz. .84 - —
hydrous, bots., 100 ozs.....oz. .78 - —
Hydrochloride, tin, 100 ozs.....oz. .60 - —
Sulphate, cryst., tins, 100 ozs..oz. .57 - —
powd., tins, 100 ozs.....oz. .53 - —
Epichlorohydrin, dms., c.l., works, lb. .36½- —
l.c.l., works .....lb. .37 - —
tanks, works .....lb. .35 - —
Epinephrine, synth., USP, bots..gram 60 - .70
Epsom salt, tech., bgs., c.l....100 lbs. 2.30 - —
l.c.l. .....100 lbs. 3.05 - —
USP, cryst., bgs., c.l.....100 lbs. 2.50 - —
l.c.l., 5,000 lbs., 1 withdrawal, 100 lbs. 3.25 - —
smaller lots .....100 lbs. 3.50 - —

Epsom salt prices freight equalized: Baltc., Carteret, N. J.; Chicago, Cincinnati, Cleveland, Midland, Mich.

Ergot, USP, ens.....lb. 1.25 - 1.30
Eserine, bots. .....oz. 55.00 -56.00
Sulphate, bots.....oz 60 00 -61.00
Ether, acetic (see Ethyl acetate).
Amyl, dms., c.l., works.....lb. .095 - —
l.c.l., works.....lb. .102 - —
tanks, works.....lb. .083 - —
Butyl, dms., c.l., divd.....lb. .30½- —
l.c.l., divd.....lb. .31 - —
tanks .....lb. .29 - —
Butyric (see Ethyl butyrate).
Dichloroethyl, purif., dms., works. lb. .16½- —
l.c.l., same basis.....lb. .17 - —
tanks, same basis.....lb. .15 - —
Ethyl (see Ether, sulphuric).
Isopropyl, dms., c.l., divd.....lb. .06 - —
l.c.l., divd. .....lb. .06½- —
tanks, divd.....lb. .04½- —
Nitrous, conc., bots., 100 lbs.....lb. .93 - 1.10
Sulphuric, conc., dms.....lb. .18 - .23
USP, anesthesia, hospital, ens.lb. .75 - 1.05
synthetic, dms., c.l., frt. alld..lb. .13½- —
l.c.l., same basis.....lb. .14½- —
tanks, same basis.....lb. .12 - —
Ethyl acetate, natural, fermentation, 85-88%, dms., c.l., frt. alld..lb. .17½- —
l.c.l., frt. alld.....lb. .18½- —
tanks, frt. alld.....lb. .16 - —
95-98%, dms., c.l., frt. alld..lb. .17¾- —
l.c.l., frt. alld.....lb. .18¾- —
tanks, frt. alld.....lb. .16¼- —
99%, dms., c.l., frt. alld.....lb. .18 - .18¼
l.c.l., frt. alld.....lb. .19 - .19¼
tanks, frt. alld.....lb. .16½- .16¾
NF, dms.. .....lb. .30 - —
synthetic, 85-90%, dms., c.l., frt. alld..lb. .13½- —
l.c.l., frt. alld.....lb. .14½- —
tanks, frt. alld.....lb. .12 - —
95-98%, dms., c.l., frt. alld....lb. .13¾- —
l.c.l., frt. alld.....lb. .14¾- —
tanks, frt. alld.....lb. .12¼- —
99%, dms., c.l., frt. alld.....lb. .14¼- —
l.c.l., frt. alld.....lb. .15¼- —
tanks, divd.....lb. .12¾- —

Ethyl acetoacetate, dms., c.l., works. lb. .41½- —
l.c.l., works.....lb. .42½- —
tanks, works.....lb. .40½- —
Benzoate, bots.....lb. .60½- .66
Betaethoxypropionate, dms., works. lb. .70 - —
Bromide, tech., 98%, dms.....lb. .36 - .40
Butyrate, bots.....gal. 5.50 - —
cns., works.....lb. .65 - .70
dms., works.....lb. .60 - —
Carbamate, dms., divd. E.....lb. .58 - —
Chloride, tech., tanks.....lb. .13½- —
USP, bbls., cyl.....lb. .20 - .22
Cinnamate, cns.....lb. 2.80 - 3.00
Formate, dms. .....lb. .38 - —
Iodide, bots.....lb. 4.08 - 4.27
Lactate, dms., works.....lb. .41 - —
Methacrylate, M-2, dms., works lb. .60 - —
cns., works.....lb. .63 - .67
P-2, cns., works.....lb. .65 - —
Myristate, dms., works.....lb No prices
Oenanthate, dms.....lb. 2.60 - 3.25
Oleate, dms., l.c.l., works.....lb. .75 - —
Oxalate, dms., frt. alld.....lb. .33 - —
Silicate, dist. (see Tetraethyl orthosilicate)
40% available SiO_2, dms., works. lb. .50 - —
Ethylalphanaphthylamine, bbls.....lb. .80 - —
Ethylanilin, dms.....lb. .60 - —
Ethylcellulose fib. dms., 5,000 lbs., works. lb. .52 - —
smaller lots, works.....lb. .54 - .62
Ethyldietuanolamine, dms., l.c.l., works lb. .80 - —
Ethylene dichloride, dms., c.l., works frt. alld. E. of Rockies..lb. .09 - —
West of Rockies.....lb. .09½- —
l.c.l., works, frt. alld. E. of Rockies..lb. .11½- —
West of Rockies.....lb. .12 - —

Ethylene dichloride, smaller containers, lb. .12½- —
tanks, frt. alld. E. Rockies....lb. .08 - —
West of Rockies.....lb. .08½- —
Oxide, dms., c.l., works.....lb. .20 - .21
l.c.l., works.....lb. .21 - .22
tanks, works .....lb. .15 - .16
Trichloride (see Trichloroethane).
Ethylenediamine, tanks, works....lb. .50 - —
Ethyleneglycol, dms., c.l., frt. alld. E..lb. .15 - —
l.c.l., same basis.....lb. .16 - —
tanks, same basis.....lb. .13½- —
Diethylether, dms., l.c.l., works..lb. .50 - —
Monobutylether, dms., c.l., works.lb. .21½- —
l.c.l., works.....lb. .22 - —
tanks, works.....lb. .20 - —
Monoethylether, dms., c.l., works.lb. .18 - —
l.c.l., works.....lb. .18½- —
tanks, works.....lb. .16½- —
Monoethylether acetate, dms., c.l., works..lb. .16½- —
l.c.l., works.....lb. .17 - —
tanks, works.....lb. .15 - —
Monomethylether, dms., c.l., works, lb. .19½- —
l.c.l., works.....lb. .20 - —
tanks, works.....lb. .18 - —
Monomethylether acetate, dms., c.l., works..lb. .24½- —
l.c.l., works.....lb. .25 - —
tanks, works.....lb. .23 - —
Ethylethanolamines, mixed, dms., c.l., works..lb. .82 - —
l.c.l., works .....lb. .83 - —
Ethylmonoethanolamine, l.c.l., dms., works..lb. .80 - —

Dyes, Coaltar—Fishmeal

Ethylmorphine, hydrochloride, bots.oz. 11.85 - —
Ethylorthotoluidine, bbls. .....lb. .80 - —
Ethylvanillin, cns., 5 lbs. or more..lb. 6.75 - —
smaller lots .....lb. 6.80 - 6.90
Eucalyptol, USP, cns., dms.....lb. 2.03 - 4.00
Eucalyptus leaves, bls.....lb. .12 - .13
Eugenol, prime USP.....lb. 1.95 - 3.25
Euphorbia, pil., herb, bls.....lb. .15 - .16

F

Feldspar, enamel, 100 mesh bgs., works. ton. 17.00 -20.50
bulk, c.l., works.....ton. 14.00 -17.50
Glass, 20 mesh bgs., tons, works. ton. 12.75 -16.25
bulk, c.l .....ton. 9.75 -12.25
Pottery, bulk, c.l., works.....ton. 17.00 -19.00
bgs., l.c.l., 2 tons, works.....ton. 20.00 -22.00
Fennel seed, Argentine, bgs.....lb. .08½- .09
Indian, bgs.....lb. .15 - .15½
Fenugreek, domestic, bgs.....lb. .10 - .10½
Indian, bgs. .....lb. .11 - .11½
futures, bgs. .....lb. .10½- .11
Ferric sulphate (see Iron sulphate, ferric)
Film scrap, colored, cs., works.....lb. .13 - —
water-white, cs., works.....lb. .14 - —
Fir balsam, Canada, ens.....gal. 32.50 -33.00
Oregon, bbls. .....gal. 2.25 - 2.30
Fishberries, bgs. .....lb. .24 - .25
Fishliver oils (see Oil, fishliver).
Fishmeal, ground, 60% protein, bgs., Balto. area..ton. 115.00 - —
65% protein, bgs., Balto. area..ton. 120.00 - —

CELANESE* FORMALDEHYDE

Available in Greater Volume

Through expanding production facilities at the **CHEMCEL** plant, at Bishop, Texas, Celanese is making available increased quantities of organic chemicals vital to industry.

Formaldehyde, one of the most important products in the growing family of Celanese* Organic Chemicals, is now offered in greater volume. This high quality, U.S.P. chemical is sold commercially as Formalin, a water white solution containing 40% formaldehyde by volume, 37% by weight. It is obtainable in both methanol inhibited and uninhibited grades.

A clear, colorless liquid, controlled to meet exacting requirements, Celanese Formaldehyde is widely used in resins, adhesives and plastics and in the production of various organic chemicals.

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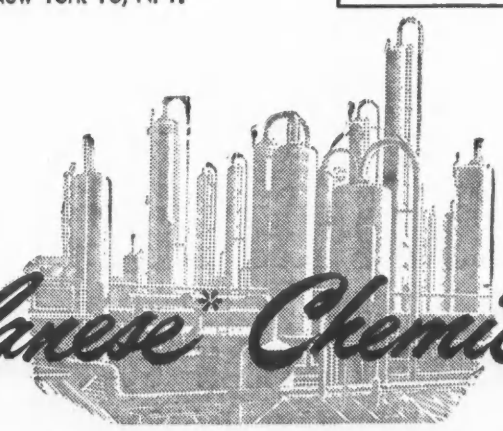
CELANESE CORPORATION OF AMERICA
Chemical Division
180 Madison Avenue, New York 16, N. Y.

CELANESE* ORGANIC CHEMICALS NOW IN PRODUCTION:

Formaldehyde	n-Propyl Alcohol
Acetaldehyde	Butyl Alcohols
Acetic Acid	Methylal
Methanol	Special Solvents
Acetone	Tricresyl Phosphates

FOR LABORATORY EVALUATION SCHEDULED FOR FUTURE PRODUCTION:

2-Methyl-1, 3-Pentanediol
Propionaldehyde



Celanese Chemicals*
*Reg. U. S. Pat. Off.

ALCOHOLS • ALDEHYDES • GLYCOLS • KETONES • ORGANIC ACIDS • SOLVENTS • PLASTICIZERS • INTERMEDIATES

Fishscrap—Gum, Ester

Fishscrap, dried, 60% protein, bulk, Balto. area..ton 100.00 - —
Flenseed, black, bgs.....lb. .50 - .55
blonde, bgs.....lb. .22 - .23
Husks, bgs.....lb. .65 - .70
Fluorspar, acid grade, bgs., c.l., mines, ton 45.50 - —
l.c.l., mines.....ton 47.50 - —
bulk, contract, c.l., mines.....ton 40.00 - —
noncontract c.l., mines.....ton 43.00 - —
l.c.l., mines.....ton 45.00 - —
ceramic grade, No. 1, ground, 90-92% CaF_2, bulk, c.l., mines, net ton 38.50 - —
washed gravel, 70% or more, CaF_2, bulk, c.l., mines..ton 31.00 - —
65%, bulk, c.l., mines.....ton 33.00 - —
60%, bulk, c.l., mines.....ton 32.00 - —
less than 60%, bulk, c.l., mines..ton 30.00 - —
Formaldehyde, inhibited, bbls., c.l., works..lb. .0695- —
l.c.l., works.....lb. .0745- —
dms., extra, c.l., works.....lb. .0595- —
l.c.l., works.....lb. .0645- —
tanks, works.....lb. .0420- —
tanktrucks, dlvd., N.Y.C.....lb. .0445- —
uninhibited, tanks, works.....lb. .0400- —
Fringetree bark, bls.....lb. .53 - .55
Fuller's earth, dom., powd., bgs., c.l., Fla., Ga. mines..ton 30.00 - —
Tex. mines.....ton 27.00 - —
spent, bulk, Bayonne.....ton 2.00 - 4.00
imp., bgs., c.l.....ton 30.00 -40.00
Furfural, tech., dms., c.l., works..lb. .13 - —
dms., cns., l.c.l., works.....lb. .15½- 20½
tanks, works.....lb. .09½- —
Fusel oil, refined, dms., c.l.....lb. .28½- —
l.c.l.....lb. .30½- —
tanks.....lb. .28 - —
Fustic extract, cryst., No. 1, bbls., l.c.l..lb. .42½- —
No. 1A, bbls., l.c.l.....lb. .41½- —
No. 2, bbls., l.c.l.....lb. .40½- —
No. 3, bbls., l.c.l.....lb. .38½- —
liquid, No. 0, bbls., l.c.l.....lb. .22 - —
No. 1, bbls., l.c.l.....lb. .20½- —
No. 2, bbls., l.c.l.....lb. .19½- —
No. 3, bbls., l.c.l.....lb. .17 - —
solid, No. 1, bxs., l.c.l.....lb. .28 - —

G

G salt, bbls.....lb. nominal -
Galangal root, bls.....lb. .14 - .15
Gambier, plantation, bgs., ex dock..lb. .21 - .23
Extract, bbls.....lb. No stocks
Gammapicoline, 95% dms., c.l., works, lb 1.35 - —
Gasoline, at refinery, ex tax, Arkansas, 73-75 octane, tanks..gal. .1075- —
Bayonne, 74 octane, tanks...gal. .118 - —
Gulf coast, 73-75 octane, tanks, gal. .105 - .11
Group 3, 73-75 octane, tanks..gal. .105 - .12875
Pennsylvania, western, U. S. motor, 74 octane, leaded tanks, gal. .1175- .12
natural, 26-70 octane group 3, tanks..gal. 085 - —
Gelatin, silver label, ctns., dlvd....lb. 1.25 - —
export, cs.....lb. 1.35 - —
Gelatin price 5c. higher for deliveries in Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Tex., Utah, Wash., Wyo.
Gelsemium root, bls.....lb. .35 - .40
Gentian root, bls.....lb. .15 - .16
grd., bbls., bxs.....lb. .18 - .19
powd., bbls., bxs.....lb. .20 - .21
Geraniol, 92-96%, cns. dms.....lb. 3.40 - —
prime.....lb. 2.75 - —
Geranyl acetate, cns.....lb. 3.35 - 3.50
Ginger, oleoresin, bots.....lb. 4.25 - 4.75
Root, African, bls.....lb. .14½- .15½
Cochin, bleached, bgs.....lb. No stocks
unbleached, bgs., futures.....lb. .20 - .20½
Jamaica, No. 1 bgs.....lb. No stocks
No. 2, bgs.....lb. .23 - .23½
No. 3, futures.....lb. .21½- .22
Rhattoon, bgs.....lb. .20 - .20½
Glauber's salt, anhyd. (see Soda sulphate).
cryst., bgs., works.....100 lbs. 1.25 - 1.75
l.c.l., bgs., works.....100 lbs. 1.75 - 2.10
Glue, bone, calcium type, 24 millipoise, 36 jellygrams, bgs., c.l., East of Midwest..lb. .21 - .24
36/76, bgs., c.l., same basis....lb. .22 - .26
58/82, bgs., c.l., same basis....lb. .23 - .26
82/108, bgs., c.l., same basis...lb. .25 - .27
Bone glue, l.c.l. prices 1c. higher than c.l. ground, 40-45 jelly in grams, bgs., c.l. (50,000 lbs.), dlvd..lb. .26 - —
l.c.l., same basis.....lb. .27 - —
pulverized, 60 jelly in grams, bgs., c.l. (50,000 lbs.), same basis..lb. .27½- —
l.c.l., same basis.....lb. .28½- —
Glue, hide, 100-121 (jelly in grams, bgs., c.l., dlvd..lb. .23 - .27
122-149, bgs., c.l., dlvd.....lb. .25 - .29
150-177, bgs., c.l., dlvd.....lb. .25 - .29
178-206, bgs., c.l., dlvd.....lb. .26 - .30
207-236, bgs., c.l., dlvd.....lb. .27 - .31
237-266, bgs., c.l., dlvd.....lb. .28 - .32
267-298, bgs., c.l., dlvd.....lb. .29 - .33
299-330, bgs., c.l., dlvd.....lb. .30 - .34
331-362, bgs., c.l., dlvd.....lb. .31 - .35
363-394, bgs., c.l., dlvd.....lb. .32 - .36
395-427, bgs., c.l., dlvd.....lb. .33 - .37
428-460, bgs., c.l., dlvd.....lb. .34 - .38
461-494, bgs., c.l., dlvd.....lb. .35 - .39
495-529, bgs., c.l., dlvd.....lb. .36 - .40
Hide glue l.c.l. prices 1c. higher than c.l. bbls., ½c. more than bgs.
Glycerin, crude, saponification, 88% to refiners, tanks, dlvd..lb. .28 - .30
soaplye, 80%, tanks, dlvd.....lb. .27 - .31
dynamite, dms., c.l., dlvd.....lb. 29½- .30½
l.c.l., dlvd.....lb. .30 - .32
tanks, dlvd.....lb. 29½- .30
high gravity, dms., c.l.....lb. .31½- .32½
l.c.l.....lb. .32 - .33½
tanks.....lb. 30½- .33
refined, EP, 95%, dms., c.l.....lb. 30½- .41½
tanks.....lb. 30½- .41½
USP, 95%, dms., c.l.....lb 30½- .41½
l.c.l.....lb. .40 - .41½
tanks.....lb. 30½- .40
yellow, distilled, dms., c.l.....lb. 29½- .30½
l.c.l.....lb. 30½- .32
Glycine USP (see Acid, aminoacetic)
Glycol borihorate, dms.....lb .22 - —
Stearate, dms.....lb .26 - —
Gold chloride, acid-brown, bots.....oz. 22.00 -23.25
acid-yellow, bots.....oz. 20.00 -21.25
Gold of pleasure seed, bgs.....lb. .40 - .41
Goldenseal root, bls.....lb 5.50 - 5.75
powd., bxs.....lb 5.75 - 6.00
Gold-sodium chloride, photo, bots..oz. 13.50 -14.00
USP IX, bots.....oz 14.50 -15.00
Grains of paradise, bgs.....lb .55 - .56
Graphite, imported, amorph, powd., bgs., dlvd..lb. .04 - .06
crystalline, 88-90%, powd., bgs., ex whse..lb. .14 - .16
90-92%, powd., bgs., ex whse, lb. .16 - .18
97%, powd., bgs., ex whse....lb. .22 - .25
flake, No. 1 90-95%, bgs., cnts., ex whse lb. .21 - .22
No. 2, whse.....lb. .23 - —
Grease, horse, loose.....lb. .14 - —
White, choice, loose.....lb. .16½- —
Wool (see Degras and Lanolin)
Yellow, loose.....lb. .14½- —
Green, brilliant, intonavin, toner, molybdic, kgs., works lb 4.25 - 4.50
Tungstic, kgs., works.....lb 4.25 - 4.50
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N. C. E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. 31½- —
6-10%, bbls., same basis..lb. 33½- —
11-15%, bbls., same basis..lb. 36½- —
16-20%, bbls., same basis..lb. 37 - —
21-25%, bbls., same basis..lb. 38 - —
26-30%, bbls., same basis..lb. 38½- —
31-35%, bbls., same basis..lb. 38 - —
36-40%, bbls., same basis..lb. 41 - —
41-45%, bbls., same basis..lb. 42½- —
46-50%, bbls., same basis..lb. 44½- —
51% and over, bbls., basis 45½- —
reduced color, 5%, bbls, same basis..lb 10 - —
6-10%, bbls., same basis..lb 10½- —
11-15%, bbls., same basis..lb. 11½- —
16-20%, bbls., same basis..lb. 12 - —
21-25%, bbls., same basis..lb. 12½- —
26-30%, bbls., same basis..lb. 12½- —
31-35%, bbls., same basis..lb. 12½- —
36-40%, bbls., same basis..lb. 13 - —
41-45%, bbls., same basis..lb. 13½- —
46-50%, bbls., same basis..lb. 14 - —
51-55%, bbls., same basis..lb. 15 - —
56-60%, bbls., same basis..lb. 16½- —
61-65%, bbls., same basis..lb. 17½- —
66-70%, bbls., same basis..lb. 20 - —
71-75%, bbls., same basis..lb. 22½- —
76-80%, bbls., same basis..lb. 23½- —
81-85%, bbls., same basis..lb. 23½- —
86-90%, bbls., same basis..lb. 24 - —
91-95%, bbls., same basis..lb. 25 - —
96-100%, bbls., same basis..lb. 26½- —
Chrome green prices are 2c. higher for Ala., Fla., Ga., La. (Shreveport, Tex.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1½c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Green, chromium oxide, hydrated, bbls., works..lb. .75 - 1.00
pure, bgs., frt. alld.....lb. .33 - .36
Malachite, thioflavin toner, molybdic, bbls., works..lb 3.00 - —
Tungstic, bbls., works.....lb 3.40 - —
Paris (see P).
Phthalocyanin toner, bbls., works..lb 4.40 - 4.60
Tungstated, brilliant, kgs.....lb. 3.00 - 4.00
Emerald, kgs.....lb. 2.00 - —
Verdigris (see V)
Dyes (see Dyes, coaltar).
Grindelia robusta herb, bls.....lb. .25 - .30
Guaiac resin, cs.....lb. .48 - .49
Wood, bls.....lb. .35 - .39
Guaiacol, cryst., NF, tins.....lb. No Price
liquid, NF, bots., cbys.....lb. 1.80 - 1.85
Carbonate NF, dms.....lb. 2.85 - —
Guarana, powd., cs.....lb. 2.00 - 2.10
Gum, accroides (see Gum, yucca).
Aloe (see A.)
Ammoniac, tears, cs.....lb. .90 - .95
Arabic, amber, sorts, bgs.....lb. .14 - .20
white, sorts, 1, bgs.....lb. .28 - .33
powdered, USP, bbls.....lb. 20½- .21
Asafetida (see A)
Asphaltum (see A).
Benzoin, Sumatra, cs.....lb. .40 - .45
Camphor (see C).
Copal, Congo, No. 1, bgs.....lb. .25 - .27
No. 2, bgs.....lb. .20 - .22
No. 3, bgs.....lb. .16½- .17
Manjak, DBB, bgs.....lb. .21 - .22
MA, bgs.....lb. .21 - .22
Johore, bgs.....lb. .27 - .28
Philippine, 1st quality, bgs.....lb. .21½- .22
2nd quality, bgs.....lb. .19½- .20
3rd quality, bgs.....lb. .16½- .17
Dammar, Batavia, AE, cs.....lb. .24½- .25
E, cs.....lb. .17½- .18
Singapore, No. 1.....lb. .28 - .29
No. 2, cs.....lb. .23 - .24
East India, black, bold, bgs.....lb. .14 - .15
Batu, bold, bgs.....lb. .11 - .12
nubs, bgs.....lb. 08½- .09
Elemi, cns.....lb. .24 - .26
Kauri, gum-resin type, dms., c.l., dlvd. Ill., Ind., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va.....lb. .17 - .17½
wood-resin type, dms., c.l., dlvd., Ill., Ind., etc..lb. .17 - .17½

CROTONIC ACID

$CH_3-CH=CH-CO_2H$

WHITE FLAKES: MP 70-71° C

Mol. Wt: 86.09 Purity: 98% Minimum

SOLUBILITY AT 25° C

SOLVENT	SOLUBILITY
WATER	8.56%
ETHYL ALCOHOL	52.5%
TOLUENE	37.5%
ACETONE	53.0%

Crotonic Acid, possessing a system of conjugated double bonds, has been actively investigated as a component in polymeric materials. Several interesting applications have been reported:

1. Lower alkyl esters form useful copolymers with:
   (a) Vinyl esters
   (b) Maleate esters
   (c) Styrene
2. Bodied with linseed oil, Crotonic Acid produces varnish resins
3. Reaction products with amines have wood-sealing properties
4. Crotonic Acid can be incorporated in polyvinyl acetate resins to increase water and acid resistance
5. Esters of polyhydric alcohols make useful modifying resins for varnishes, lacquers, and plastics

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Knowing who wants what and when, we are able to complete export transactions upon more favorable terms than those unversed in the complexities of today's foreign trade. In return, we work just as hard to find buyers for wanted foreign commodities so that dollar credits can be set up to complete the deal.

It takes doing. But, after two generations of moving merchandise throughout the world, we possess valuable associations among buyers and sellers of chemicals . . . which may help you to expand your markets while relieving you of many risks.

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CABLE: Encofan New York or Neuberg New York Encofan, Tokio

Gum, Euphorbium—Juniper Tar

Gum, euphorbium, cs.....lb. .50 - .55
Galbanum, cs. .....lb. .85 - .90
Gamboge, pipe, cs.....lb. 1.70 - 2.00
powd., bbls. .....lb. 1.95 - 2.25
Ghatti, No. 2, bgs.....lb. .35 - .37
No. 3, bgs. .....lb. .31 - .33
Guaiac (see Gualac resin).
Karaya, No. 1.....lb. .46 - .51
No. 2.....lb. .38 - .43
No. 3.....lb. .33 - .36
No. 4.....lb. .28 - .31
No. 5.....lb. .23 - .27
No. 6.....lb. .20 - .22
Kauri, bgs.....lb. .31½- .32¾
Locust bean, powd., bgs.....lb. .42 - .48
Mastic, cs. .....lb. 2.25 - —
Myrrh, cs.....lb. .35 - .38
Olibanum, siftings, cs. .....lb. .12 - .13
tears, cs. .....lb. .22 - .38
Opium (see O).
Red (see Gum yacca).
Rosin (see R).
Sandarac, cks.....lb. 1.20 - 1.45
Scammony, cs. .....lb. 1.50 - 1.55
Sterculia (see Gum, karaya).
Telha, bgs. .....lb. .10 - .11
Tragacanth, No. 1, cs.....lb. 3.60 - 3.70
No. 2, cs. .....lb. 3.20 - 3.25
No. 3, cs. .....lb. 2.25 - 2.50
powdered, USP, bbls. .....lb. 1.35 - 1.45
Yacca, bgs .....lb. .06 - .07
Gypsum, Keane's cement, paper bgs., c.l., Acme, Tex., frt. equald..
ton.22.63 - —
Harlem river, N. Y., frt. equald.
ton.28.28 - —
Gypsum, Keen's cement, paper bgs., c.l., Medicine Lodge, Kan., frt. equald..ton.17.00 - —
New Brighton, N. Y., frt. equald.
ton.30.65 - —
Southard, Okla., frt. equald.ton.17.00 - —
Sweetwater, Tex., frt. equald.
ton.21.45 - —
Plaster of paris, paper bgs., c.l., Acme, Texas, frt. equald..ton.12.50 - —
Blue Rapids, Kans., frt. equald
ton.10.50 - —
Harlem river, N. Y., frt. equald.
ton.12.00 - —
Medicine Lodge, Kan., frt. equald...ton.12.50 - —
New Brighton, N. Y., frt. equald.
ton.18.00 - —
Southard, Okla., frt. equald..ton.12.50 - —
Sweetwater, Tex., frt. equald...
ton.12.50 - —
Stucco, paper bgs., c.l., Acme, Texas, frt. equald..ton. 8.00 - —
Akron, N. Y., frt. equald..ton. 8.00 - —
Blue Rapids, Kans., frt. equald.
ton. 8.00 - —
Clarence Center, N. Y., frt. equald..ton. 8.00 - —
Fort Dodge, Iowa, frt. equald.
ton. 8.00 - —
Grand Rapids, Mich., frt. equald..ton. 8.00 - —
Gypsum, Ohio, frt. equald..ton. 8.00 - —
Harlem river, N. Y., frt. equald.
ton. 8.00 - —
Gypsum, stucco, National City, Mich., frt. equald..ton. 8.00 - —
New Brighton, N. Y., frt. equald.
ton. 8.00 - —
Plasterco, Ga., frt. equald..ton. 8.00 - —
Portsmouth, N. H., frt. equald.
ton. 8.00 - —
Rotan, Texas, frt. equald..ton. 8.00 - —
Saltville, Va., frt. equald..ton. 9.00 - —
Southard, Okla., frt. equald.ton. 8.00 - —
Sweetwater, Texas, frt. equald.
ton. 8.00 - —
Terra alba, paper bgs., c.l., Harlem river, N. Y., works..ton.22.50 - —
New Brighton, N. Y., works...
ton.21.00 - —

H

Hawthorn berries, bgs.....lb. .55 - .57
Heliotropin, cryst., cns.....lb. 3.15 - 4.00
Hellebore, white, powd., bbls.....lb. .40 - .45
Helonias root, bls.....lb. 2.00 - 2.25
Hematine extract, cryst., No. 0, bbls., l.c.l..lb. .45½- —
No. 1, bbls., l.c.l.....lb. .44½- —
No. 1A, bbls., l.c.l.....lb. .41½- —
No. 2, bbls., l.c.l.....lb. .40½- —
No. 3, bbls., l.c.l.....lb. .38½- —
No. 4, bbls., l.c.l.....lb. .36½- —
No. 5, bbls., l.c.l.....lb. .34½- —
paste, No 1, bbls., l.c.l.....lb. .19 - —
No. 2, bbls., l.c.....lb. .18 - —
No. 3, bbls., l.c.l.....lb. .17 - —
No. 4, (red), bbls., l.c.l.....lb. .12½- —
Hemlock bark extract, 25% tannin, bbls., c.l., works..lb. No stocks
tanks, works.....lb. No stocks
Henbane leaves, bls.....lb. .80 - 1.00
Henna leaves, bls.....lb. .22 - .24
powd., bbls., bgs.....lb. .28 - .30
Heptane, industrial, tanks, group 3, gal. .12½- .13½
Hexalin (see Cyclohexanol).
Hexaethyl tetraphosphate, cns., works. lb. 1.25 - —
dms., c.l., works.....lb. .80 - —
l.c.l., works. .....lb. .90 - 1.00
Hexamethylene-tetramine, tech., bbls., 1,000-lb. lots, Perth Amboy or N.Y.C..lb. .26 - —
smaller lots, same basis.....lb. .27 - —
USP, dms., 500 lbs. or more, same basis..lb. .37 - —
smaller lots, same basis.....lb. .38 - —
Hexane, industrial, tanks, group 3, gal. .13½- .14½
Hexanol, normal, dms., c.l., works..lb. .27½- —
l.c.l., works.....lb. .28 - —
tanks, works.....lb. .26 - —
Homatropine, hydrobromide, bots...oz.15.00 -25.00
Hydrochloride, bots. .....oz.20.00 -22.00
Hoofmeal, 17-18% ammonia bulk, c.l., Chicago..unit-ton. 6.50 - 7.00
Hops, NF, bls. .....lb. .55 - 1.30
Horehound, bls. .....lb. .12 - .13
Hydrangea root, bls.....lb. .14 - .17
Hydrastine, bots.....oz.53.50 -53.80
Sulphate, bots.....oz.53.50 -53.80
Hydrastinine, 10-grain bots. .....bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrofuramide dms., fib. cns., works. lb. .50 - .40
Hydrogen peroxide, USP, bbls.....lb. .03¾- .05
27½%, cbys., E. of Miss. or W. coast via Panama Canal..lb. .17½- .19½
35%, cbys., same basis, dms.....lb. .23½- —
dms., c.l., same basis.....lb. .20½- —
l.c.l., same basis.....lb. .21½- —
tanks .....lb. .19½- —
Hydroquinone, bbls., dms. .....lb. .90 - .94
Hydroxycitronellal, cns. .....lb. 6.50 - 7.50
Hyoscine hydrobromide, bots. .....oz.34.00 -38.00
Hyoscyamine, bots. .....oz.18.00 -20.00
Hydrobromide, bots.....oz.18.00 -19.50
Sulphate, bots. .....oz.14.00 -19.50
Hypernic extract, cryst., No 1, bbls., l.c.l. lb. .52½- —
No. 2, bbls., l.c.l.....lb. .44½- —
liquid, No. 1, bbls., l.c.l.....lb. .28½- —
No. 2, bbls., l.c.l.....lb. .23½- —
solid, No. 1, bxs., l.c.l.....lb. .41 - —
Hyssop herb, bgs.....lb. .45 - .50
Leaves, bgs. .....lb. .55 - .60

I

Iceland moss, bgs. .....lb. .40 - .50
Ichthammol, NF, bots. .....lb. 2.45 - —
Indian red (see Red, Indian)
Indigo, nat., chests.....lb. 2.14 - 2.80
synth., paste, bots. .....lb. .16½- .19
powd., bbls. .....lb. .74½- .85
Indol, CP, bots. .....lb.18.00 -23.00
Inositol, tins, dlvd.....lb. 5.00 - —
Insect flowers (see Pyrethrum)
Iodine, crude, kgs., ex whse., Staten Island..lb. 1.729 - —
resubl., bots., jars.....lb. 2.35 - 2.45
Iodoform, dms., kgs. .....lb. 4.30 - 4.74
Ionone ketone, alpha, cns. .....lb.12.50 -16.40
beta, cns. .....lb. 9.00 -12.50
pure, cns. .....lb. 5.65 - 7.95
Methyl (see M)
Ipe, bots., 1-5 lbs.....lb. 2.68 - 2.72
bo. dms., 100 lbs., ship't point....lb. 2.30 - 2.50
50 lbs., ship't point.....lb. 2.40 - 2.52
10-25 lbs., ship't point.....lb. 2.50 - 2.74
Ipecac root, bgs. .....lb. 4.60 - 4.70
powd., bgs. .....lb. 4.85 - 4.95
Irish moss, bleached, prime, bls.....lb. .18 - .19
Iron acetate, liquor, 25°, bbls., c.l., works..lb. .09 - —
l.c.l., works. .....lb. .09¾- —
solut., USP IX, cbys.....lb. .16 - —
djns. .....lb. .17 - —
Chloride (ferric), anhydr., tech., dms., c.l., works..100 lbs. 5.75 - —
l.c.l., works .....100 lbs. 6.50 - 7.50
cryst., tech., bbls., works..100 lbs. 5.00 - 6.00
l.c.l. bbls, works.....100 lbs. 5.50 - 8.00
USP X, lump, bbls.....lb. .07½- .08
solut., 42 Be, cbys., works, frt. alld. or equald..lb. .06 - .06¾
Citrate, gran., dms.....lb. .77 - .79
Glycerophosphate, N.F., powd...lb. 4.35 - —
Hypophosphite, dms. .....lb. 2.40 - —
Iodide, bots.....lb. 3.48 - 3.63
Naphthenate, 6% Fe, dms., dlvd..lb. .21 - —
Nitrate, red, tech., dms.....lb. .03½- .04
Oxalate, gran., dms.....lb. .83 - .85
Phosphate, soluble, NF, gran., cs.lb. .64 - .65
Pyrophosphate, soluble, NF VII, gran., dms...lb. .69 - .72
Resinate, 7.4%, Fe, dms.....lb. .22 - —
Stearate, dms., c.l.....lb. .43 - —
ton lots.....lb. .44 - —
less ton lots.....lb. .45 - —
Sulphate (ferric), anhyd., bgs., c.l., works..ton.52.50 - —
l.c.l., works .....ton.37.50 - —
partially hydrated, bgs., c.l., works..ton.28.50 - —
(ferrous), tech (see Copperas).
USP, cryst., bbls., dms.....lb. .09½- .10
Iron by hydrogen, kgs.....lb. .80 - .85
Iron-ammonium citrate, brown, green, gran., dms..lb. .45 - .46
Oxalate, bbls. .....lb. .23½- —
dms., bgs. .....lb. .25½- .26½
Iron-sodium oxalate, fine gran., bbls., dms..lb. .23½- .26½
Isobornyl acetate, cns.....lb. .97 - 1.10
Isobutyl acetate, cns.....lb. .97 - 1.25
Thiocyanocetate, dms., c.l., works, gal. 3.85 - —
l.c.l., works .....gal. 3.85 - 4.05
tanks, works .....gal. 4.25 - —
Methacrylate, M-5, dms., works...lb. .60 - —
cns., works .....lb. .62 - .67
P-5, cns., works.....lb. .60 - —
Propionate, cns. .....lb. No price
Isobutyraldehyde, dms., works.....lb. .33 - .36
Isoeugenol, extra, cns.....lb. 3.20 - 4.00
cbys., extra .....lb. 3.10 - —
Isopentane, dms., works.....lb. .45 - .55
Isophorone, dms., c.l., works.....lb. .23½- —
l.c.l., works .....lb. .24 - —
tanks, works .....lb. .22 - —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., frt. alld. E. of Rockies..lb. .13½- —
l.c.l., same basis.....lb. .14 - —
tanks, same basis.....lb. .12 - —
Alcohol (see Alcohol, isopropyl).
Ether (see Ether, isopropyl).
Phenylcarbamate (see IPC).
Isopropylamine, dms., works.....lb. .25 - —

J

Jaborandi leaves, bls.....lb. .15 - .20
Jalap root, NF, bls.....lb. .47 - .50
powd., bbls., bxs.....lb. .50 - .60
Resin, powd., bxs.....lb. 7.15 - 7.25
Juniper berries, bgs.....lb. .10 - .16
Tar, USP, dms.....lb. .50 - .60

METAL	PETROLEUM	PHARMACEUTICALS	SOAP-DETERGENTS	CHEMICALS
RUST PREVENTION Phosphoric Acid — To form a permanent rust proof coating on iron and steel products.	**OIL ADDITIVES** Alkyl Phosphates — To improve the properties of lubricating oils and greases.	**ASTRINGENTS** Aluminum Phosphates — For preparation of anti-perspirants and deodorants.	**CLEANING COMPOUNDS** Trisodium Phosphate — Effective detergent in both commercial and household cleaners.	**PLANT FOODS** Take-Hold — Provides nitrogen, phosphorus, and potash in transplanting.
CLEANING Trisodium Phosphate — To remove oil and grease from metal parts and equipment.	**MUD CONDITIONERS** Sodium Phosphates — To control the viscosity of oil drilling fluids.	**REAGENTS** Phosphoric Acid — In the manufacture of penicillin.	**BAR SOAPS** Sodium Tripolyphosphate — Superior soap builder which improves washing effectiveness.	**INSECTICIDES** Tetraethyl Pyrophosphate — For sprays and dusts to control aphids, mites and other insects.
ALLOYS Phosphorus — Manufacture of phosphor-bronze.	**REFINING KEROSENE** Phosphoric Acid — Removal of gum forming constituents.	**POLISHING AGENTS** Calcium Phosphates — Non-scratching dentifrice polishing agent.	**SOAP POWDERS** Tetrasodium Pyrophosphate — To prevent soap curd formation and increase sudsing power.	**LEATHER TANNING** Sodium Formate — Increases tannage speed in chrome tanning.
FINISHING Phosphoric Acid — Forms a permanent bond with metal and a base for primer coat.	**PURIFYING GASOLINE** Tripotassium Phosphate — Removes sulphur compounds.	**MINERALS** Dicalcium Phosphate — Provides calcium for therapeutic purposes.	**LIQUID SOAPS** Tetrapotassium Pyrophosphate — Produces a clear liquid soap with high sudsing power.	**PAINT-VARNISH** Oxalic Acid — For bleaching floors and wood.
SHEET STEEL Ferrophosphorus — Prevents steel sheets from sticking when rolled in bundles.	**MUD WEIGHTING** Ferrophosphorus — To increase the specific gravity of oil drilling fluids.	**ANTACID** Tricalcium Phosphate — Medicinal preparations to control excess acidity.	**SCOURING COMPOUNDS** Trisodium Phosphate — Supplements abrasive component in cutting grease.	**PLASTICS** Phosphoric Anhydride — In the manufacture of hard, transparent resins.
POLISHING Phosphoric Acid — Electropolishing of stainless steel.	**CATALYSTS** Phosphoric Acid — Preparation of catalysts for production of high octane gasoline.	**CHLORINATING** Phosphorus Oxychloride — In the manufacture of sulfa drugs and atabrin.	**WASHING COMPOUNDS** Sodium Phosphates — Softens water and improves washing effectiveness of soap.	**PULP-PAPER** Ammonium Phosphates — Provides the most effective method of flame proofing.

*TRADE MARK

VICTOR CHEMICAL WORKS

141 West Jackson Boulevard • Chicago 4, Illinois

K

Kamala, powd., cns.....lb. .38 - .40
Kaolin (see China clay).
Kava kava root, bls.....lb. .27 - .28
Kerosene, at refinery: Ark., 42-44 w.w., tanks, gal 0502½ -
Bayonne, 41-43, w.w., tanks.. gal 10¢ -
California, 40-43 w.w., tanks, gal. 1115- 1240
Gulf ports, 41-43, w.w., tanks, gal. .0525- 055
Okla.-Tex., 41-43 w.w., tanks, gal. 05½ - 0502½
Penn., 45 w.w., tanks.....gal .1125- 13
47 w.w., tanks.....gal 125 - .13
Kola nuts, bgs.....lb. .07 - .08
Kyanite, imp., low iron content, 10-mesh, whse. ton 85.00 -95.00
calcined, grain, 10-mesh, whse ton 95.00 -105.00

L

Ladyslipper root, bls.....lb. 1.75 - 1.80
Lanolin, anhyd., cosmetic, dms., works, lb. .22 - .24
pharmaceutical, USP, dms., works, lb. .20 - .22
hydrous .....lb. .18 - .20
Lard, cash, trcs., Chicago.....lb. 23½ - .24
Larkspur seed, bgs.....lb. .35 - .40
Laurel berries, bls .....lb. .25 - .26
Leaves, Portuguese, bls.....lb. .07½ - .07¾
Greek, bls., futures.....lb. .08¼ - .08¾
Turkish, bls. .....lb. .13½ - .14
Lavender flowers, medium, bls.....lb. .60 - -
ordinary, bls. .....lb. .23 - .25
select, bls. .....lb. .70 - .75
Lead acetate, white, crystals, bbls..lb. .20 - -
sugar, bbls. .....lb. .20½ - -
powd., bbls .....lb. .20¾ - -
Arsenate, dealers, basic powder, 6-lb. bgs. or larger, c.l..lb. .23½ - -
l.c.l. .....lb. .24½ - .25½
1-lb bgs., c.l.....lb. .31 - -
l.c.l. .....lb. .32 - .35
Lead arsenate prices are works or frt. alld. on 96 lbs or more to dest. whse, outside East.
Blue, basic sulphate, bbls., c.l., ship't point, frt. alld..lb. .18¼ - -
l.c.l., works .....lb. .19¼ - -
Carbonate (see Lead, white).
Chloride, fib dms.....lb. .40 - -
Iodide, NF V, jars.....lb. 2.94 - 3.14
Linoleate, solid, 13%, bbls.....lb. .38¼ - -
Metal, pigs, prime, N. Y.....lb. .17½ - -
E. St. Louis.....lb. .17¾ - -
Metallic paste, dms., 10,000-40,000 lbs., works..lb. .27½ - -
2,000-10,000 lbs. same basis...lb. .28½ - -
up to 2,000 lbs. same basis lb. .30 - -
Naphthenate, liquid, 10% Pb, dms., dlvd. lb. .16½ - -
24% Pb, dms., dlvd .....lb. .22¾ - -
Nitrate, bbls., c.l.....100 lbs. 20.10 - -
l.c.l. .....100 lbs. 20.35 - -
Oleate, bbls.....lb. .36½ - -
Peroxide, powd., tech., bbls.....lb. .29 - .31
Red, 95% Pb_3O_4 or less, bbls., c.l., ship't point, frt. alld..lb. .20½ - -
l.c.l., same basis.....lb. .21¼ - -
97% Pb_3O_4 bbls., c.l., same basis, lb. .20½ - -
l.c.l., same basis.....lb. .21½ - -
98% Pb_3O_4 bbls., c.l., same basis, lb. .20¾ - -
l.c.l., same basis.....lb. .21¾ - -
Resinate, precip., 23.8% Pb, dms..lb. .25 - -
Silicate, bgs.....lb. .17 - .17½
Stearate, bbls., c.l.....lb. .49 - .52
ton lots.....lb. .50 - .53
less ton lots.....lb. .54 - .57
Sulphate (see Lead, blue; Lead, white basic sulphate).
Tallate, liquid, 16% Pb, dms...lb. .12 - -
solid, 30% Pb, dms.....lb. .23¼ - -
White, basic carbonate, bgs., c.l., ship't point, frt. alld..lb. .19 - -
l.c.l., same basis.....lb. .20 - -
basic silicate, bgs., c.l., ship't point, frt. alld. lb. .17½ - .21½
l.c.l., same basis.....lb. .17¾ - .22¼
basic sulphate, bgs., c.l., ship't point, frt. alld. lb. .15½ - -
l.c.l., same basis.....lb. .16¼ - -
Lecithin, edible, tech., bleached, dms., non-ref., c.l., works..lb. .17½ - -
l.c.l., same basis.....lb. .20 - -
unbleached, c.l., same basis....lb. .16½ - -
l.c.l., same basis.....lb. .19 - -
Lemon peel, bls.....lb. .25 - .30
Licorice extract, mass, cns.....lb. .25 - .30
powd., bbls. .....lb. .40 - .42
Root, bls. .....lb. .07 - .08
Sticks, bundles, cs.....lb. .45 - .50
powd., bbls.....lb. .10½ - .11
Lignin extract, tanning grade, bgs., c.l., works..lb. .04½ - -
Lime, agricultural, bulk, works..tons. 9.00 - 9.50
Chemical (quicklime), lump, pebble, bulk, Adams, Mass.....ton. 9.00 - -
Annville, Pa.....ton. 9.00 - -
Bellefonte, Pa. .....ton. 9.00 - -
Berkeley, W. Va.....ton. 9.00 - -
Buffalo, N. Y.....ton. 9.00 - -
Carey, Ohio .....ton 7.00 - -
Cedar Hollow, Pa.....ton. 9.50 - -
Cedar Hollow, Pa.....ton. 9.50 - -
Crab Orchard, Tenn.....ton. 8.50 - -
Eagle Mountain, Va.....ton. 8.50 - -
Farnams, Mass. .....ton. 9.00 - -
Gibsonburg, Ohio.....ton. 9.00 - -
Hannibal, Mo.....ton. 8.50 - -
Keystone, Ala. .....ton. 8.50 - -
Knoxville, Tenn.....ton. 8.50 - -
Limedale, Ark.....ton. 8.50 - -
Longview, Ala.....ton. 9.00 - -
Manistique, Mich.....ton. 8.00 - -
Marblehead, Ohio.....ton. 8.50 - -
Martinsburg, W. Va.....ton. 8.50 - -
Menominee, Mich.....ton. 9.00 - -
Mitchell, Ind.....ton. 8.00 - -
Newala, Ala.....ton. 7.50 - -
Hopkinsmead, Va.....ton. 8.50 - -
Riverton, Va.....ton. 8.50 - -
Rockland, Maine.....ton. 9.00 - -
Scioto, Ohio.....ton. 6.50 - -
Sherwood, Tenn.....ton. 9.29 - -
Sherwood, Wis.....ton. 8.50 - -
Springfield, Mo.....ton. 8.00 - -
Woodville, Ohio.....ton. 9.50 - -
York, Pa.....ton. 9.00 - -
Hydrated, paper bgs., Adams, Mass. ton.11.50 - -
Annville, Pa.....ton.11.50 - -
Bellefonte, Pa. .....ton.11.50 - -
Berkeley, W. Va.....ton.10.00 - -
Buffalo, N. Y.....ton.11.50 - -
Carey, Ohio.....ton. 9.00 - -
Cedar Hollow, Pa.....ton.11.50 - -
Crab Orchard, Tenn.....ton.11.65 - -
Eagle Mountain, Va.....ton.10.00 - -
Eagle, W. Va.....ton.11.50 - -
Farnams, Mass. .....ton.11.50 - -
Gibsonburg, Ohio.....ton. 9.75 - -
Hannibal, Mo.....ton. 9.50 - -
Keystone, Ala. .....ton.12.25 - -
Knoxville, Tenn.....ton.11.50 - -
LeRoy, Minn.....ton.10.50 - -
Limedale, Ark.....ton.10.00 - -
Longview, Ala.....ton.12.25 - -
Manistique, Mich.....ton. 9.50 - -
Lime, hydrated, Marblehead, Ohio..ton.10.50 - -
Mitchell, Ind.....ton.10.00 - -
Newala, Ala.....ton.12.25 - -
Petoskey, Mich. .....ton.10.00 - -
Port Island, Mich.....ton. 9.00 - -
Rapid City, S. Dak.....ton.12.00 - -
Rockland, Maine.....ton. 9.00 - -
Ripplemead, Va.....ton.10.00 - -
Scioto, Ohio.....ton. 8.00 - -
Sherwood, Tenn.....ton.12.14 - -
Sherwood, Wis.....ton.10.00 - -
Springfield, Mo.....ton. 9.00 - -
Woodville, Ohio.....ton. 8.50 - -
York, Pa.....ton.11.50 - -
Spray, paper bgs., Adams, Mass. ton.11.70 - -
Annville, Pa.....ton.11.50 - -
Bellefonte, Pa.....ton.11.50 - -
Carey, Ohio.....ton.11.00 - -
Engle, W. Va.....ton.11.50 - -
Farnams, Mass.....ton. 9.50 - -
Gibsonburg, Ohio.....ton.10.00 - -
Marblehead, Ohio.....ton.10.00 - -
Rockland, Me.....ton.10.00 - -
Scioto, Ohio.....ton.10.00 - -
Woodville, Ohio.....ton.10.00 - -
York, Pa. .....ton.11.50 - -
Lime salts (see Calcium)
Lime-ammonia-nitrogen, 20.5% N (see Ammonium nitrate-limestone).
Limestone, grd., bulk, works...ton. 1.40 - -
Linalool, ex bois de rose.....lb. 4.50 - 6.85
ex lignaloe wood. .....lb. 6.50 - 7.00
Linalyl acetate, ex bois de rose, bots.lb. 4.35 - 7.20
ex lignaloe wood, bots.....lb. 8.25 - 8.40
ex petitgrain, bots .....lb. 5.10 - 6.35
Linden flowers with leaves, bls.....lb. .30 - .32
without leaves, bls.....lb. .26 - .28
Linseed meal, 34% bulk, Midwest mills ton.69.00 -70.00

Kamala—Magnesium Fluoride

Litharge, com'l powd., bbls., c.l. ship't point, frt. alld..lb. 19¼ - -
l.c.l., same basis.....lb. 20¼ - -
Lithium bromide, bbl., works, frt. equald. lb 1.90 - -
Carbonate, NF, bbls., kgs.....lb. 1.10 - 1.15
Chloride, dms.....lb. 1.15 - 1.65
Citrate, bbls., dms., kgs.....lb. 1.30 - 1.45
Fluoride, bbls.....lb. 1.95 - -
Hydroxide, dms.....lb. 1.15 - 1.25
Lithopone, ordinary, bgs. c.l., ship't point..lb. 06¾ - -
l.c.l., same basis.....lb. 06¾ - 06¾
Titanated (high-strength), bgs., c.l. lb. 08¼ - -
smaller lots.....lb. 08½ - -
Lithopone Pac. Cst. prices ¾c. higher
Liverwort leaves, bls.....lb. .88 - .95
Lobelia herb, bls.....lb. .65 - .70
Lobeline sulphate, bots., works...oz 25.00 -33.00
Logwood extract, crystals, No. 1, bbls. l.c.l. lb 35½ - -
No. 2, bbls., l.c.l.....lb. 36½ - -
liquid, No. 1, bbls. l.c.l.....lb. 18½ - -
No. 2, bbls., l.c.l.....lb. 17½ - -
No. 3, bbls., l.c.l.....lb. 17 - -
No. 4, bbls., l.c.l. .....lb. 16½ - -
solid, No. 1, bxs, l.c.l.....lb. 38 - -
No. 2, bxs., l.c.l.....lb. 31 - -
No. 3, bxs., l.c.l.....lb. 28½ - -
No. 4, bxs., l.c.l.....lb. 28 - -
No. 5, bxs., l.c.l.....lb. 26½ - -
No. 6, bxs., l.c.l. .....lb. 44½ - .49¼
Lovage root, unp., bls.....lb 1.20 - 1.25
Lupulin, NF VII, tins.....lb. 7.00 - 8.00
Lycopodium, cs. .....lb. 2.00 - 2.50

M

Mace, No. 1, Straw, cs.....lb. 1.28 - 1.30
East Indies, bgs., fixtures.....lb. 1.25 - 1.30
Papua, bgs., fixtures.....lb. 1.15 - 1.20
West Indies, bgs.....lb. 1.28 - 1.40
broken .....lb. 1.10 - 1.15
Madder, Dutch, bgs.....lb. 29 - .32
Magnesia, calcined, tech., bbls., works..lb. 20 - -
USP, bbls.....lb. .31 - .33
Magnesium arsenate, bgs., cans, works..lb. .20 - .30
Bromide, dms. .....lb. 90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald..lb. 08 - -
l.c.l., frt., alld. .....lb. 09 - -
bbls., c.l., frt. equald.....lb. 09¼ - -
l.c.l., frt. alld.....lb. 10¼ - -
kgs., c.l., frt. equald.....lb. 10½ - -
l.c.l., frt. alld .....lb. 11½ - -
USP, bgs., c.l., frt. equald.....lb. 09½ - -
c.l., frt. alld. .....lb. 10¼ - -
bbls., c.l., frt. equald.....lb. 10¼ - -
l.c.l., frt. alld.....lb. 11¼ - -
kgs., c.l., frt. equald.....lb. 11½ - -
l.c.l., frt. alld.....lb. 12½ - -
Magnesium carbonate is quoted frt. alld. to N. J., except to Atlantic, Burlington, Cape May, Cumberland, Gloucestershire, Ocean, and Salem counties, and to Phila. county, Pa. Frt. equald. with N. Y. C. on all other destinations.
Chloride, anhyd., bbls., works...lb. 12¾ - -
flake, bbls., c.l., works.....ton.40.00 - -
l.c.l., works.....ton.44.00 -46.00
Fluoride, bbls.....lb. .20 - .25

From SHELL CHEMICAL ... a downward price revision for

Trichloropropane

AN EFFICIENT SOLVENT FOR OILS AND RESINS

New volume production now allows Shell Chemical to offer 1,2,3-Trichloropropane at a greatly reduced price.

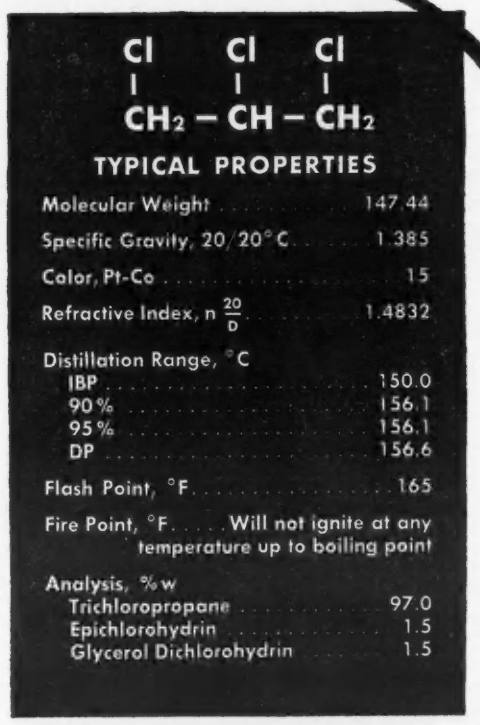
Trichloropropane has the rapid and powerful solvent action typical of chlorinated hydrocarbons. Its excellent solvency and low evaporation rate suggest its use in paint and varnish removers and engine cleaning compounds.

High solvency is also provided for oils, fats, waxes, chlorinated rubber and many natural and synthetic resins.

In addition, because of its low vapor pressure at moderate temperatures, TCP is well suited to applications where volatile solvents are undesirable.

The high efficiency of this product plus its new low price might very well mean an attractive saving in the manufacture of *your* product.

Why not write today for a data sheet and a sample?



TYPICAL PROPERTIES

Molecular Weight	147.44
Specific Gravity, 20/20° C	1.385
Color, Pt-Co	15
Refractive Index, n_D^{20}	1.4832
Distillation Range, °C	
IBP	150.0
90%	156.1
95%	156.1
DP	156.6
Flash Point, °F.	165
Fire Point, °F.	Will not ignite at any temperature up to boiling point
Analysis, % w	
Trichloropropane	97.0
Epichlorohydrin	1.5
Glycerol Dichlorohydrin	1.5

Among the many other Shell Chemical products are Acrolein, Hexylene Glycol and Methylpentadiene

NOW AVAILABLE IN COMMERCIAL QUANTITIES

SHELL CHEMICAL CORPORATION

100 Bush Street, San Francisco 6 • 500 Fifth Avenue, New York 18
Los Angeles • Houston • St. Louis • Chicago • Cleveland • Boston • Detroit

Magnesium Hydroxide—Molybdate Orange

Magnesium hydroxide, medicinal, bbls., dms., kgs..lb. .29 - .30
Hypophosphite, dms.....lb. 1.50 - —
Laurate, bbls. .....lb. .46 - .47
Metal, 98.8%, ingots, cs., works...lb. .20½ - —
sticks, cs. .....lb. .84 - .88
Oleate, precip., bbls.....lb. .40½ - —
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works.....lb. 1.00 - 1.05
Phosphate, tribasic, NF, bbls.....lb. .70 - .77
Silicate (see Talc).
Silicofluoride, bbls., works.....lb. .10 - —
Stearate, ctns., 2,000 lbs. to c.l...lb. .50 - —
smaller lots.....lb. .49 - —
Sulphate (see Epsom salt).
Trisilicate, dms., 1,000-lb. lots.....lb. .37 - —
smaller lots.....lb. .42 - —
Magnesite, chem. grade, bgs., c.l., mines, Calif..ton.60.00 - —
dead-burnt, bulk, c.l., Chewalan, Wash..ton.27.00 - —
Maleic anhydride, dms., c.l.....lb. .27½ - .30
l.c.l. .....lb. .28½ - .31
Malva flowers, black, bls.....lb. No stocks
Blue, bls. .....lb. 1.25 - 1.30
Leaves, bls. .....lb. .40 - .42
Manaca root, bls.....lb. .49 - .50
Mandrake root, bls.....lb. .30 - .32
Manganese acetate, dms.....lb. .25½ - —
Arsenate, bgs. .....lb. .12 - .12½
Borate, tech., bbls.....lb. .16 - .18
Carbonate, bbls. .....lb. .19 - —
Chloride, anhyd., dms., works....lb. .18 - .19
Manganese dioxide, African, battery, 84%-87%, bbls., 28-40 tons, works..ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
burlap bgs., c.l., works.....ton.71.75 - —
l.c.l., works .....ton.74.75 -79.79
paper bgs., c.l., works.....ton.70.00 - —
l.c.l., works .....ton.73.00 - —
85-90%, bbls., c.l., works..ton.74.00 - —
smaller lots, works.....ton.77.00 -82.00
Glycerophosphate, fib. dms.....lb. 4.25 - —
Hypophosphite, NF, dms.....lb. 1.80 - —
Hydrate, bbls., dlvd.....lb. .26 - —
Iodide jars .....lb. 5.55 - —
Linoleate, liquid, 4.35% Mn, dms.lb. .39¼ - —
solid, precip., 8.2% Mn, bbls...lb. .41½ - —
Metal, cs., dlvd. East.....lb. .30 - .32
Naphthenate liquid, 6% Mn, dms..lb. .22½ - —
Oleate, fused, bbls.....lb. .44¾ - —
Resinate, fused, 3½% Mn, bbls....lb. .09 - .10½
precip., dms. .....lb. .16 - —
Sulphate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E..ton.60.00 - —
l.c.l., dlvd. S. E.....ton.67.00 - —
feed grade, 80%, bgs.....lb. .05½ - .07
75%, bgs., c.l., dlvd. S. E....ton.68.50 - —
l.c.l., same basis.....ton.75.50 - —
Tallate, liquid, 4% Mn, dms.....lb. No prices
solid, 8% Mn, dms.....lb. No prices
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock..ton.63.00 - —
Manna, flake, large, cs.....lb. 1.50 - 1.60
small, cs.....lb. .80 - .85
Mannitol, com'l, bbls., works....lb. .38 - .43
reagent, cs., works.....lb. .85 - —
Marjoram, Argentine, bls.....lb. .14 Nom.
Chilean, bls. .....lb. .20 - .20½
French, bls. .....lb. .34 - .35
Matico leaves, bls. .....lb. .25 - .28
Menadione, USP, bots., works..gram. .10 - —
Menthol, natural, USP, Brazilian, cns..lb. 9.05 - 9.85
synthetic, tech., cns.....lb. 6.00 - 6.10
USP, laevo, cns.....lb. 8.90 - 9.95
Menthyl salicylate, tins.....lb. 3.00 - 3.10
Mercury bichloride (see Corrosive sublimate).
Bisulphate, dms.....lb. 2.13 - 2.15
Chloride (see Calomel).
Cyanide, cryst., powd.....lb. 3.27 - 3.32
Iodide, red, NF dms.....lb. 4.17 - —
Yellow, NF, fib. dms.....lb. 4.27 - —
Metal (see Quicksilver).
Oxide, red, NF (see Red precipitate).
yellow, tech. (see Yellow, mercury oxide).
USP, fib. dms.....lb. 2.44 - 2.46
Mesityl oxide, dms., c.l., dlvd.....lb. .13 - —
l.c.l., dlvd. .....lb. .13½ - —
tanks, dlvd. .....lb. .11½ - —
Metachloranilin, dms., works.....lb. .75 - —
Metacresol, 98%, dms., works.....lb. .65 - .80
Metanitroparatoluidin, bbls.....lb. 1.22 - 1.33
Metaphenylenediamine, kgs.....lb. .76 - —
Metatoluidine, bbls., works.....lb. .80 - —
Metatolylenediamine, kgs.....lb. .77 - —
Methanol, natural, dms., c.l., frt. alld. gal. .74 - 1.10
l.c.l., frt. alld.....gal. .77 - 1.12
tanks, frt. alld.....gal. .66 - 1.00

Prices on natural methanol W. of Miss. 3c. higher synthetic, eastern production, Zone 1,
dms., c.l., frt. alld..gal. .38½ - —
l.c.l., frt. alld.....gal. .42 - .44½
tanks, frt. alld.....gal. .28 - —

Methanol, synthetic, Eastern production, tanks, zone 2, dms., l.c.l., frt. alld..gal. .45 - —
l.c.l., ex-whse.....gal. .47½ - —
tanks, frt. alld.....gal. .33 - —
Synthetic methanol Zones are: Zone 1 is all continental U. S., E. of eastern boundaries of Ariz., Idaho, Mont., and Utah. Zone 2 is remainder of the U. S., west of above state boundaries, comprising Ariz., Calif., Idaho, Mont., Nev., Ore., Utah, and Wash.
Texas production, Midwest and Gulf states, dms., c.l., works, frt. alld..gal. .37½ - —
tanks, frt. alld.....gal. .27 - —
West of Rockies, dms., c.l., frt. alld..gal. .45 - —
tanks, frt. alld.....gal. .33 - —
Methyl abietate, non-ret. dms., c.l., dlvd. zone 1..lb. .15½ - —
l.c.l., same basis.....lb. .15¾ - —
Hydrogenated, non-ret, dms., c.l., dlvd., zone 1..lb. .16¾ - —
l.c.l., same basis.....lb. .17¼ - —
Acetoacetate, dms., c.l., works....lb. .47 - —
l.c.l., same basis.....lb. .48 - —
tanks, works.....lb. .46 - —
Methyl acetoacetate prices, frt. alld. W., ¼c. higher.
Acetone, natural, group A, dms., extra, c.l., E. of Miss., frt. alld.gal. .50 - —
l.c.l., same basis.....gal. .57 - —
Natural Methyl acetone group A prices W. of Miss. 3c. per gal higher, group B, dms., incl., c.l., E. Miss., frt. alld..gal. .60 - .95
l.c.l., same basis.....gal. .71 - .95
tanks, same basis.....gal. .50 - .80
synthetic, dms., c.l., works, frt. alld E..gal .61½ - —
frt. alld. W.....gal. .64 - —
l.c.l., works, frt. alld. E....gal .65 - —
frt. alld. W.....gal. .68½ - —
tanks, works, frt. alld. E....gal .52 - —
frt. alld. W.....gal. .55½ - —
Methyl acetone, synth. East territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory, all States West of those four.
Alcohol (see Methanol).
Anthranilate, 500 lbs. or more....lb. 2.10 - —
smaller lots .....lb 2.20 - 3.00
Benzoate, cns. .....lb. .55 - 1.20
Bromide, dealers, cns.....lb. .50 - .52
cyls. .....lb. .46 - .59
Chloride, indust., cyl., works.....lb. .16 - —
tanks, multi-unit, works.....lb. .14½ - —
single-unit, works.....lb. .14 - —
refrigeration, indust. consumers, refrigeration machinery mfrs., cyls., dlvd..lb. .33 - —
retail refrigeration consumers or service men, cyls., dlvd..lb. .41 - —
Cinnamate, cns.....lb 1.65 - 3.50
Formate, dms.....lb. .89 - —
Heptin carbonate, bots.....lb.36.00 -38.00
Iodide, bots., cbys.....lb 4.33 - 4.42
Lactate, dms., l.c.l. works.....lb. .35 - —
Methacrylate, M-1, dms., works..lb. .45 - —
cns., works.....lb. .48 - .53
T-1, cns., works.....lb. .60 - —
Salicylate, dms., 500 lbs.....lb. .40 - —
25-50 lbs. .....lb. .45 - —
Methylal, refined, 95%, dms., c.l....lb. .06 - —
l.c.l., works.....lb. .07 - —
tanks, works .....lb. .04½ - —
Methylamyl ketone, cns., dms., works. lb. No stocks
Methylcellulose, special vis. (1,000 cps.), fib. ctns., c.l., frt. alld..lb. .68 - —
2,000 lbs. and more, same basis lb .70 - —
smaller lots, frt. alld. on 100 lbs. lb .75 - .80
standard vis. (15-1,500 cps.), fib. ctns., c.l., frt. alld..lb. .62 - —
2,000 lbs. and more, same basis lb .63 - —
smaller lots, frt. alld. on 100 lbs..lb. .68 - .72
Methylene blue, USP, 100-lb. lots, kgs., frt. equald..lb. 2.42 - —
smaller lots, kgs., same basis... lb. 2.52 - 2.57
Chloride, indust., dms., c.l., dlvd. E. lb. .12½ - —
l.c.l., dlvd., E.....lb. .13½ - —
tanks, dlvd., E.....lb. .11½ - —
Methylenedianilin, dms., ton lots, frt. alld. lb. .36 - —
smaller lots, same basis.....lb. .37 - —
Methylethyl ketone, dms., dlvd.....lb. .11½ - —
l.c.l., dlvd. .....lb. .12 - —
tanks, dlvd. .....lb. .10 - —
Methylhexyl ketone, tech., dms., works. lb. .60 - —
Methylionone, A, cns.....lb. 6.55 - 8.80
D, cns.....lb. 7.50 - 9.35
prime, cns.....lb. 4.55 - 6.60
Methylisobutyl carbinol (see Carbinol, methylisobutyl).
Methylisobutyl ketone, dms., c.l., dlvd. lb. .15 - —
l.c.l., dlvd.....lb. .16 - —
tanks, dlvd.....lb. .13½ - —
Methylnaphthyl ketone, cns.....lb. 3.00 - 3.75
Methylpentanediol, dms., works, dlvd. lb. .17½ - —
l.c.l., works, dlvd.....lb. .18½ - —
tanks, works, dlvd.....lb. .16 - —
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works..lb. 03½ - —
roofing, 20 to 80 mesh, works....lb. 03½ - —
wet-grd., biotite, bgs., c.l., works, frt. alld. E..lb. 03½ - —
l.c.l., ex whse. or frt. alld. E. lb. 06¼ - —
extra fine, bgs., c.l., works, frt. alld. E..lb. .05½ - —
l.c.l., ex whse. or frt. alld. E. lb. .06¼ - —
paint or lacq., bgs., c.l., works, frt. alld. E..lb. .07 - —
l.c.l., ex whse. or frt. alld. E.lb. .07½ - —
rubber, bgs., c.l., works, frt. alld. E..lb. .06¾ - —
l.c.l., ex whse. or frt. alld. E. lb. .07½ - —
wallpaper, bgs., c.l., works, frt. alld. E..lb. .07 - —
l.c.l., ex whse. or frt. alld. E. lb. .07½ - —
white, extra fine, bgs., c.l., works, frt. alld. E..lb. .07 - —
l.c.l., ex whse. or frt. alld. E. lb. 07¾ - —
Mica, wet-grd. W. of Miss R., ½c higher. W. of Rockies, 1c. higher.
Milk powder, skimmed, roller, bbls., c.l..lb. .15 - .16
spray, bbls., c.l.....lb. .16¼ - .17
Whole, roller, bbls., c.l.....lb. .41½ - .43
spray, bbls., c.l.....lb. .41 - .43
Sugar, edible, bbls., works, 30,000-lb. lots..lb. 24 - —
2,000-lb. lots .....lb. 24¾ - —
200-1,800-lb. lots .....lb. 25¼ - —
USP, bbls., works, 3,000-lb. lots.lb. 26 - —
2,000-lb. lots .....lb. 26¾ - —
200-1,800-lb. lots .....lb. 27¼ - —
Molasses, blackstrap, tank.....gal. .26½ - —
Molybdate orange (see Orange, molybdate).

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Peanut Oil
Hardened Peanut Oil and Flakes
Soya Bean Oil
Hardened Soya Bean Oil and Flakes
Cottonseed Oil
Hardened Cottonseed Oil and Flakes
•
Shortening-Standard and all Hydrogenated
•
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Marine Oils
•
Stearic Acid
•
Plasticizer SC for Vinyl Resins, Synthetic and Natural Rubber Compounds
•
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ENQUIRIES SOLICITED

Mineral spirits (see Petroleum, mineral spirits).
Molybdenum metal, 99% Mo. powd., kgs..lb. 2.60 - 3.00
Trioxide, pure, kgs., works, basis Mo. content..lb. .96 - —
technical, kgs., works, basis Mo. content..lb. .80 - —
Monochlorobenzene, dms., c.l., works, frt. equald..lb. .06½- .08
l.c.l., works ..... .07 - .09
smaller containers, works.....lb. .09 - .12
tanks, works, frt. equald.....lb. .06 - .09½
Monoethanolamine, dms., c.l., frt. alld. E..lb. .26½- —
l.c.l., same basis.....lb. .27½- —
smaller containers, same basis....lb. .30½- —
tanks, same basis.....lb. .25 - —
Monoethylamine, dms., c.l., wks. basis 100%..lb. .22 - —
l.c.l., same basis.....lb. .24 - —
tanks, same basis.....lb. .20 - —
Monomethylamine, anhydrous, cyl., works, basis 100%..lb. .34½- .44½
95%-96%, dms., c.l., same basis..lb. .32 - —
l.c.l., same basis.....lb. .33½- —
tanks, same basis.....lb. .30 - —
Mononaphthalene, tanks, wks.lb. .16 - —
Monosodium glutamate (see Sodium glutamate, monobasic).
Phosphate (see Sodium phosphate, monobasic).
Monotertiarybutylmetacresol, dms., c.l., works..lb. .50 - —
l.c.l. .....lb. .51 - —
tanks .....lb. .49 - —
Morphine, cns., 25 ozs.....oz. 12.40 - —
Acetate, cns., 25 ozs.....oz. 9.50 - —
Hydrobromide, cns., 25 ozs.....oz. 9.50 - —
Hydrochloride, cns., 25 ozs.....oz. 9.50 - —
Sulphate, cns., 25 ozs.....oz. 9.90 - —
Morpholine, dms., c.l., works.....lb. .59½- — l.c.l., works.....lb. .60 - —
tanks, works.....lb. .58 - —
smaller containers, works.....lb. .75 - —
Mountain ash berries, bgs.....lb. .75 - .76
Mullein leaves, bls .....lb. 12 - .13
Musk, nat., Tonquin, grains, bots..oz. 38.00 -55.00
synthetic, ambrette, cns., 5-lb..... 5.65 - —
Ketone, cns., 100 lbs. or more..lb. 4.60 - 4.95
25 lbs. .....lb. 4.70 - 5.05
5 lbs. .....lb. 4.60 - 5.45
Xylol, cns. .....lb. 1.60 - 1.80
25 lbs. .....lb. 1.70 - 1.80
5 lbs. .....lb. 1.80 - 2.00
Musk root, bls.....lb. No prices
Mustard seed, Calif., brown.....lb. .21 - .21½
Danish, yellow, bgs.....lb. .16 - .16½
Dutch, yellow, bgs.....lb. .16 - .16½
Montana, brown, bgs., source....lb. .11 - .11½
Oriental, bgs. .....lb. .07 - .07½
yellow, bgs., source.....lb. .14½- .14⅝
Washington, yellow, bgs.....lb. .16½- .17
Myrobalans, JI, good quality, ex dock, ton. 54.00 -55.00
J2, ex dock.....ton. 47.00 -48.00

N

Naphtha, painters (see Petroleum naphtha, V. M. & P.).
Solvent (see S)
Naphthalene, dom., crude, 74°, bgs., bbls., frt. equald..lb. No prices
tanks, same basis...lb. .06½- .07⅛
78°, bbls., c.l., same basis....lb. .07 - .08
l.c.l., same basis.....lb. .07½- .08½
tanks, same basis.....lb. .06 - .07½
refined, industrial, bbls., frt. equald, lb. .11 - —
bgs., c.l., same basis.....lb. .10½- —
tanks, same basis.....lb. .10 - —
flakes, flakes, wholesalers, jobbers, 50-lb. cs., c.l., same basis..lb. .12 - .12½
1-lb. pkgs., c.l., same basis.lb. .13 - .13½
Neocinchophen, USP, dms., works..lb. 7.09 - 7.19
Nepheline syenite, glass, 24 mesh, bulk, Rochester, N. Y.....ton. 14.25 - —
pottery, 200 mesh, bulk, Rochester, N. Y..ton. 18.25 - —
Nepheline syenite in bgs., $3 per ton higher than bulk.
Nerolin, crys., cns.....lb. 1.70 - 2.25
Niacin (see Acid, nicotinic).
Nicinamide (see Nicotinamide)
Nickel, carbonate, bbls., dlvd.....lb. .41 - —
Chloride, bbls., dlvd.....lb. .25 - —
Cyanide, bots., dms.....lb. 1.75 - 2.00
Formate, bbls., ton lots, dlvd.....lb. .42½- —
Metal, electro cathodes, cs.....lb. .33½- —
Oxide, black, bbls.....lb. .38 - —
Sulphate, bgs., c.l., dlvd.....lb. .16 - —
l.c.l., dlvd.....lb. .16½- —
Nicotinamide, USP, dms., works..kilo. 9.50 - 9.80
Hydrochloride, dms., works.....kilo. 9.00 - 9.10
Nicotine sulphate, 40%, dms., dealers, frt. alld. over 50 lbs..lb. .988 - —
tins, dealers.....lb. 1.105 - —
Nikethamide, bots, cbys.....lb. 6.50 - 6.60
Nitercake, bulk, works.....ton. No stocks
Nitrobenzene, dbl. dist., dms., c.l..lb. .09 - .09⅛
l.c.l. .....lb. .10 - .11
tanks .....lb. .08 - .08⅛
Nitrocellulose, ester soluble, 30-35 cps., ¼, ½, 5-6, 15-20, 30-40, 60-80 and 125-175 secs., bbls., c.l., works, dry weight..lb. .28 - —
l.c.l., same basis.....lb. .29 - .31
8-25 cps., bbls., c.l., same basis..lb. .30 - —
l.c.l., same basis.....lb. .31 - .33
250-400 secs. and 600-1,000 secs., bbls., c.l., same basis..lb. .32 - —
l.c.l., same basis.....lb. .33 - .35
spirit-soluble, 30-35 cps., ¼, ½, 5-6 and 40-60 secs., bbls., c.l., same basis..lb. .34 - —
l.c.l., same basis.....lb. .35 - .37
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Barrels extra, but returnable.
Nitrogen solution, tanks, works, N ton. 107.00 - —
Nitrogenous process tankage, bulk, works, ammo. unit-ton. 3.70 - —
Sewage sludge, bulk, works, unit ton. 4.15 + 40-
Nitromethane, dms., c.l., works....lb. .25 - —
Nitropropane, 1, dms., works.....lb. .25 - —
2 dms., works.....lb. .25 - —
Nonylnaphthalene blend (mono and di), tanks, works..lb. .14 - —
Nutgalls, Aleppo, bgs.....lb. .50 - —
Chinese, bgs. .....lb. .44 - —
Istrian, bgs. .....lb. .29 - —
Nutmegs, East Indian, bgs., futures, allost..lb. .54 - .55
West Indian, bgs.....lb. .57 - .57½
futures .....lb. .57 - .57½
Nux vomica, bls. .....lb. .08 - .09
powdered, bbls., bxs. .....lb. .11 - .12

O

Oakbark extract, 25% tannin, bbls., c.l., works..lb. No stocks
Octane, 100°-140° C, industrial grade, dms., c.l., group 3..gal. .19 - —
l.c.l. .....gal. .21 - .60
tanks, group 3.....gal. .15½- —
Octanol (see Alcohol, ethylhexyl).

Oil, almond, bitter, artificial (see Benzaldehyde).
Bitter, F.P.A., bots.....lb. 4.45 - 5.00
NF, bots.....lb. 4.90 - —
Sweet, dms., cns.....lb. .80 - 1.30
Angelica root, bots.....lb. 120.00 -250.00
Seed, bots.....lb. 110.00 -200.00
Anilin (see A).
Anise, USP, Chinese, dms.....lb. .75 - 1.25
Russian, cns.....lb. 3.25 - 3.75
Apricot kernel, cns.....lb. .65 - .85
Avocado, cns., dms.....lb. 1.00 - 1.10
babassu, tanks.....lb. .27 - —
Bay, NF, Puerto Rican, 50-55%, cns, lb. 1.20 - 2.25
55-60%, cns.....lb. 1.20 - 2.35
60-65%, cns.....lb. 2.50 - —
West Indian, 50-55%, cns.....lb. 1.20 - 1.65
Bergamot, artif., cns.....lb. 2.50 - 4.25
natural, Italian, cns.....lb. 3.90 - 6.00
Birch (see Oil, sweet birch).
Birchtar, crude, cns.....lb. .95 - 1.76
rectified, cns.....lb. 4.25 - —
Bois de rose, Brazil, cns.....lb. 2.90 - 4.75
Mexican (see Oil, lignaloe wood).
Bone, dms., works.....gal. .65 - .70
Cajeput, tech., dms.....lb. 2.15 - 2.45
redistilled, USP IX, cns.....lb. 2.60 - 4.50
Calamus, cns. .....lb. 20.00 -28.00
Camphor, natural, white, cns.....lb. .40 - .75
synthetic, dms.....lb. .15 - .40
Cananga, native, cns.....lb. 4.00 - 9.10
rectified, cns. .....lb. 5.00 -12.50
Capsicum (see Capsicum oleoresin).
Caraway, NF, cns.....lb. 4.75 - 6.50
Cardamom, bots. .....lb. 23.00 -31.50
Cassia, USP, cns.....lb. 2.00 - 3.75
Oil, castor, blown, ret. dms., c.l..lb. .26 - —
l.c.l. .....lb. .27 - .27½
cold-pressed, USP, ret. dms., c.l. lb. .24 - —
lb. .24 - —
l.c.l. .....lb. .25 - —
tanks .....lb. .23 - —
dehydrated, bodied, dms., c.l....lb. .26½- —
l.c.l. .....lb. .27½- —
tanks .....lb. .26 - —
unbodied, dms., c.l.....lb. .25½- —
tanks .....lb. .25 - —
hydrogenated, bgs., c.l., works...lb. .37 - —
l.c.l., same basis.....lb. .38 - —
No. 3, tech., ret. dms., c.l.....lb. .20½- —
l.c.l. .....lb. .21½- —
tanks .....lb. .22½- —
sulphonated, 50% (45% fat), dms. lb. .14 - .14½
75% (60-62% fat), dms.....lb. .20 - .20⅛
Cedarleaf, USP, cns., dms.....lb. 2.15 - 2.85
Cedarwood, cns. .....lb. .51 - .95
dms. .....lb. .42 - .85
Celeryseed, bots.....lb. 14.00 -20.00
Chaulmoogra, NF, cns., dms.....lb. .56 - —
Chinawood (see Oil, tung).
Cinnamon bark, bots.....lb. 33.00 -73.00
Leaf, Ceylon .....lb. 1.50 - 1.75
Seychelle .....lb. 1.20 - —
Citronella, Ceylon, cns.....lb. .70 - 1.05
Java, cns. .....lb. 1.35 - 1.75
Clove, USP, from Madagascar buds, cns..lb. 1.25 - 1.30
from Zanzibar buds, cns.....lb. 1.35 - 1.40
Coconut, crude, tanks, Atlantic ports, lb. .24 - —
Pac. coast.....lb. .23 - —
Oil, coconut, refined, Cochin type, tax. incl., dms., l.c.l..lb. .34½ Nom.
deodorized, tax incl., dms., l.c.l. lb. .37 Nom.
Cod, Newfoundland, dms.....lb. .24 - .25
Codliver, USP, dms..... ...gal. 2.60 - 2.70
Coriander, bots. .....lb. 34.00 -38.50
Corn, crude, tanks, works.....lb. .30 - —
foots, acid, 95%, tanks, dlvd. E. lb. .13 Nom.
raw, 50%, tanks, dlvd. E....lb. .06¾ Nom.
refined, tanks, mills.....lb. .35 - —
Costus, bots..... .....oz. 12.60 - —
Cottonseed, crude, tanks, works..lb. .32 - —
foots, acid 95%, tanks, dlvd. E. lb. .13 Nom.
raw, 50%, tanks, dlvd. E....lb. .06¾ Nom.
refined, dms., c.l.....lb. .39½- .40
l.c.l. .....lb. .41 - .42
tankcars .....lb. .37 Nom.
Creosote (see Creosote, coaltar).
Croton, NF, cns.....lb. 4.75 - 5.50
Cubeb, cns. .....lb. 6.75 -10.00
Crude (see Petroleum, crude).
Cumin, bots. .....lb. 6.25 -11.50
Cypress, bots. .....lb. 11.00 -15.00
Degras (see D).
Dillseed, bots. .....lb. 9.00 - 9.50
Dillweed, bots. .....lb. 8.00 - 9.50
Dip (see D).
Erigeron, USP, cns.....lb. 2.30 Nom.
Eucalyptus, rect., USP, 80-90%, cns. lb. .90 - 1.45
70-80%, cns.....lb. .80 - 1.30
Fenhel, sweet, cns. .....lb. 3.05 - 4.50
Fir, Canada, cns.....lb. 2.35 - —

You just can't keep a customer's nose out of your business—because the sense of smell is a basic and important influence in his preferences for one product against another.

Felton chemists, with a wealth of research and experience in Industrial Aromatics and Deodorizing Agents, can supply you with the perfect perfumes or neutralizers for your products. All you have to do is send us a sample of what you make—so that we can make careful, individualized study of your requirements.

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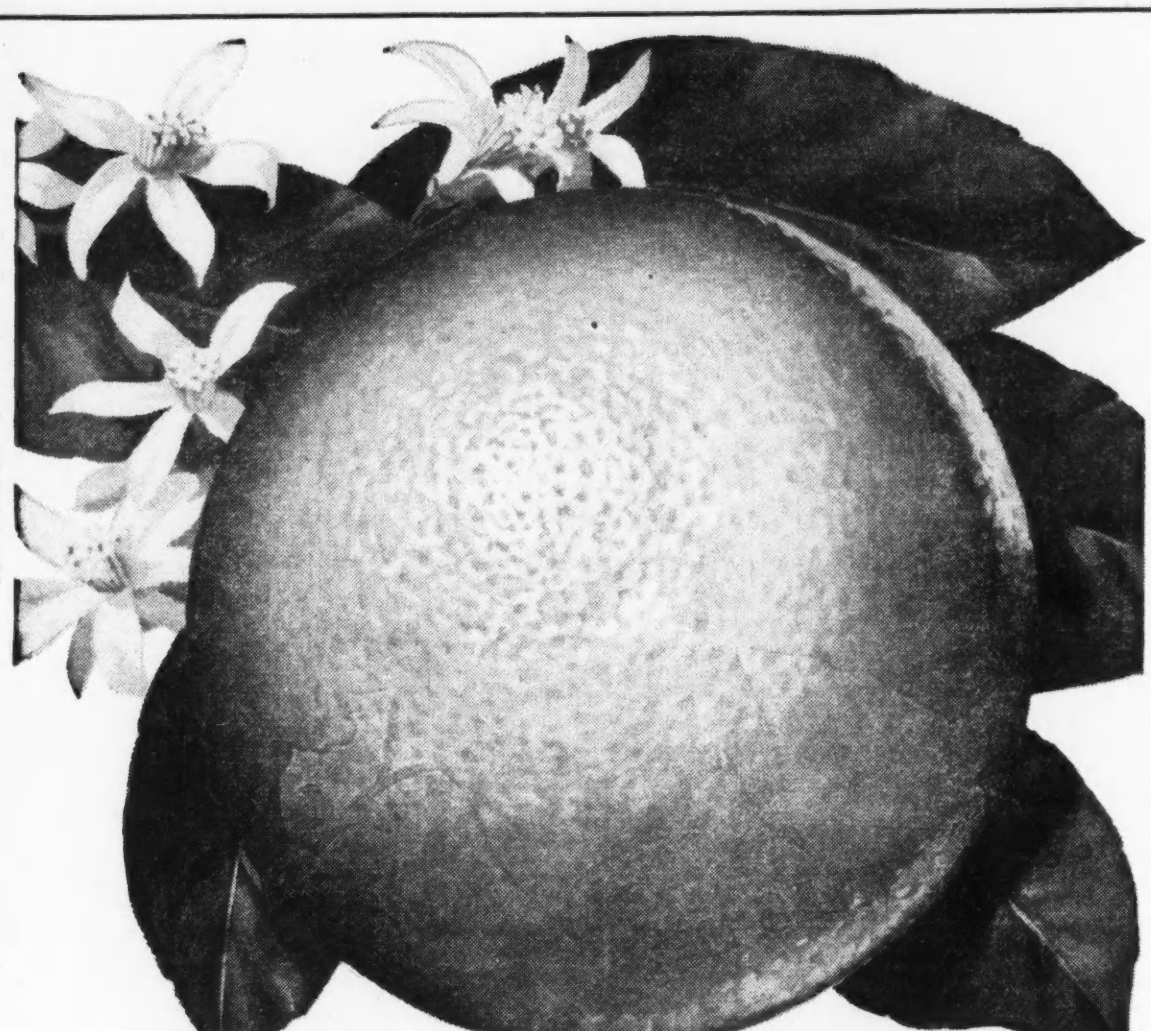
PLASTICS • LEATHERS
TEXTILES • PAINTS
INKS • PAPER
RUBBER ITEMS

Oil, Fishliver—Oil, White Mineral

Oil, fishliver, concentrating or feed, 6,000 to 12,000 A units, dms... 1,000,000 units. 22½ - —
20,000 to 80,000 A units, dms. 1,000,000 units. 30 - 33
pharmaceutical, 50,000 to 125,000 A units, dms..1,000,000 units. 36 - 37½
pharmaceutical or feed, 200,000 A units, dms..1,000,000 units. 42 - —
concentrate, 160,000 A units, cms. 1,000,000 units. 38 - —
200,000 A units, dms. 1,000,000 units 42 - —
800,000 A units, dms 1,000,000 units. .46 - —
1,000,000 A units, cms. 1,000,000 units. .49 - 54
Fuel (see Petroleum fuel oil).
Fusel (see F)
Garlic, pure, bots.....oz. 15.00 - —
Gaultheria (see Oil, wintergreen)
Geranium, Algerian, cns.....lb. 11.00 -21.00
Bourbon, cns.....lb. 9.50 -15.00
Russian, cns.....lb. No stocks
Turkish (see Oil palmarosa).
Ginger, dist., bots.....lb. 7.75 -12.00
Grapefruit.....lb. 1.15 - 2.00
Grease, No. 1, dms.....lb. .22 - .22½
extra, winter, strained, dms.....lb. .23 - .23½
prime, burning, dms.....lb. .23½- .24
Guaiacwood, cns.....lb. 2.05 - 4.15
Hemlock, cns.....lb. 2.25 - 2.75
Herring, crude, tanks, Pac. coast..lb. No prices
Juniper berry, NF VIII, bots.....lb. 5.00 - 5.25
imported, NF, twice rectified..lb. 7.00 - 7.25
Tar, USP (see Juniper tar).
Wood, tech., cns.....lb. .65 - 1.00
Lard (see Oil, grease).
Oil, laurel, bots.....lb. No stocks
Lavandin, cns.....lb. 1.35 - 3.75
Lavender flower, French, 38-42% ester...lb. 4.25 -10.15
20-32% ester.....lb. 2.85 - 3.10
Russian 25-lb.....lb. 11.75 - —
Spike, Spanish, pure, cns.....lb. 1.40 - 2.25
tech., cns.....lb. 1.40 - 2.78
Lemon, natural, USP, Calif., cns..lb. 2.10 - 2.60
Messina.....lb. 2.10 - 2.35
terpeneless, bots.....lb. 32.00 -50.00
Lemongrass, cns., dms.....lb. 1.25 - 2.30
Lignaloe seed, Mexican, cns.....lb. 4.50 - 4.80
Wood, Brazilian (see Oil, bois de rose)
Mexican, cns.....lb. 3.00 - 3.20
Lime, distilled, Mexican, cns.....lb. 3.75 - 5.00
West Indian, cns.....lb. 4.50 - 6.00
expressed, West Indian, cns....lb. 7.50 -11.25
terpeneless, bot.....lb. 25.00 -33.00
Linseed, raw, oms., c.l.....lb. .2020- —
L.c.l.....lb. .2000- .2030
tankcars.....lb. .1800- —
tankwagon.....lb. .1820- —
Boiled bodied oil 007 higher than raw
Lubricating, at refinery, ex tax, Group 3, bright stock, 150-160 vis., 10-25 p.p. tanks..gal. .285 - —
neutral, 300 vis., No. 3, col., 0.10 pour, tanks..gal. .21 - .22
200 vis., No. 3, col., 15-25 pour, tanks..gal. .18 - 19
145-155 vis., No. 3, color, 10-25 pour, tanks..gal. .285 - —
Penna., W., cylinder, 600-680 flash, tanks..gal. .33 - 38
cylinder, 600-650 steam refd., tanks..gal. .37 - —
Oil, lubricating, at refy., ex tax Penna., neutral, 40° F, No. 3 color, 150 vis., 25 pour, tanks..gal. .37 - .39
200 vis., 25 pour, tanks..gal. .39 - .41
South Texas, neutral, pale 200 vis., 2½-4 pour, tanks..gal. .11 - .12
red, 200 vis., 4-6½ pour, tanks..gal. .11- .12½
Mace, dist., cns., dms.....lb. 4.80 - 8.75
Mandarin, Brazilian, cns.....lb. 4.25 - 8.40
Italian, cns.....lb. 8.50 -16.00
Menhaden, crude, tanks, Balto....lb. .18 Nom.
refined, alkali, dms., l.c.l.....lb. .2350- —
kettle-bodied, dms., l.c.l.....lb. .2540- —
light-pressed, dms., l.c.l.....lb. .2240- —
tanks.....lb. .21 - —
Mineral, white (see Oil, white, mineral).
Mirbane (see Nitrobenzene)
Mustard, synthetic, USP, cns.....lb. 1.40 - 1.60
Seed, exp., dms.....lb. .28 - .29
Neatsfoot 15°, dms.....lb. .43 - .44
20°, dms.....lb. .42 - .42½
30°, dms.....lb. .40 - —
Neroli, French, bots.....lb. 175.00 -200.00
Haitian, bots.....lb. 175.00 -200.00
Nutmeg, dist., cns.....lb 4.75 - 8.75
Ocotea cymbarum, dms.....lb. .52 - 1.15
Officica, liquid, dms., c.l.....lb. .19½- .21
l.c.l.....lb. .20 - .21
tanks.....lb. .19½- .19¾
Oleo, extra, tes., Chicago.....lb. .29¼- .29¾
Olibanum, bots.....lb. 4.50 - 6.25
extra fine.....lb. 6.25 -10.50
Olive, denat., dms.....gal. 3.00 - —
edible, Calif., dms.....gal. 4.25 Nom.
Spanish, dms., duty paid.....gal. 4.50 - —
Moroccan, oms., sams basis...gal. 3.90 - 4.00
foots, dms.....lb. .23 - .23½
tankcars.....lb. .21½- —
Oil, olive, sulphonated, 50% (40% fat), dms., c.l.....lb. No stocks
l.c.l.....lb. No stocks
75% (62% fat), dms., c.l.....lb. No stocks
l.c.l.....lb. No stocks
Orange, sweet, natural, dist., cns...lb. .75 - 1.25
expressed, USP, Brazilian, cns, lb. 1.40 - 1.95
Calif., cns.....lb. 1.75 - 2.10
Florida, cns., dms.....lb. 1.10 - 1.85
Messina, coppers.....lb. 3.75 - 5.50
West Indian, cns.....lb. 2.25 - 3.75
sesquiterpeneless, bots.....lb. 55.00 -125.00
Origanum, Spanish, cs.....lb. 2.70 - 3.50
Palm, Niger, dms.....lb. No prices
Peppermint, cns.....lb. 6.50 - 9.00
Palmkernel, crude, bulk, c.i.f., N. Y. lb No prices
Paraffin, pale 100-110 vis. at 100° F. tanks, works..gal 10 - —
Patchouli, cns.....lb. 8.00 -25.00
Peanut, crude, tanks, works.....lb. .22 - —
foots, acid, 95%, tanks, dlvd. E. lb. .13 Nom.
raw, 50%, tanks, dlvd. E...lb .06¾ Nom.
refined, tanks, dlvd. E.....lb. .07 - .07¾
Pennyroyal, USP, dom., dms., cns lb No stocks.
Imported, cns.....lb. 2.50 - 3.00
Peppermint, natural, dms.....lb 7.50 - 8.75
redist., USP, dms.....lb 8.10 - 9.25
Perilla, crude, dms.....lb No stocks
Petitgrain, Paraguay, cns.....lb. 3.10 - 4.00
Pimento berry, dms.....lb. 4.25 - 6.50
leaf, cns.....lb. 1.05 - 3.25
Pine, dest. dist., dms., incl., c.l., works, South..gal. .60 - .69
l.c.l., works, South.....gal. .61 - .70
ex whse, N.Y.C.....gal. .70 - —
tanks, works, South...gal. .59 - —
steam-dist., dms., ex whse., East..lb. .11 - —
non-ret. dms. incl., l.c.l., ex whse, N.Y.C..gal. .86 - —
Pinemedle, Siberian, cns.....lb. 3.05 - 3.75
Swiss, 25-lb. cans.....lb. 4.00 -14.50
Pitty, petroleum, heavy, dms...gal. .18 - —
tankwagon.....gal. 13½- —
light, dms.....gal. 16½- —
tankwagon.....gal. 12½- —
Repeseed, tankcars.....lb. .28 - —
Rose, single dist. and saponified, dms..lb. .21½- .25¾
tanks.....lb. .23½- —
double dist., dms.....lb. .27½- .37½
tanks.....lb. .26 - —
Rose, natural, coppers.....oz. 16.00 -40.50
Rosemary, Spanish, tech., cns., dms. lb. .90 - 1.70
USP, cns., dms.....lb. 1.15 - 1.60
Resin, 1st rectified, dms.....gal. .66 - —
2d rectified, dms.....gal. .68 - —
3d rectified, dms.....gal. .78 - —
Rue, bots.....lb. 3.25 - 5.00
Sage, Dalmatian, cns.....lb 3.25 - 5.35
Spanish, cns.....lb 1.90 - 3.50
Sandalwood, NF, Mysore, cns.....lb. 13.00 -13.75
Sassafras, crude, tanks, Pac. coast..lb. .19 Nom.
refined, alkali, dms., l.c.l.....lb. .2500- —
kettle-bodied, dms., l.c.l.....lb. .2760- —
heat-pressed, dms., l.c.l.....lb. .2240- —
tanks.....lb. .21 - —
Sassafras, artificial.....lb. .58 - 1.35
natural, Brazilian (see Oil, ocotea cymbarum)
domestic, USP XII, cns., dms lb 1.90 - 2.30
Savin, cns.....lb. 5.00 -13.50
Savory, cns.....lb. 8.00 - —
Seal, No. 1, tanks, U. S. ports..lb. No prices
Sesame, tanks.....lb. No prices
Shingle stain, bbls., c.l., works..gal. .2185- —
c.l., works.....gal. .225 - .29
tanks, works.....gal. .15 - .16
Soybean, crude, tanks, mills.....lb. .24 - —
foots, acid, 95%, tanks, dlvd. E. lb. .13 Nom.
raw, 50%, tanks, dlvd. E...lb. .06¾ Nom.
refined, alkali, dms., c.l.....lb. .2725- —
l.c.l.....lb. .2745- .3045
tanks.....lb. .2682- —
clarified, dms., c.l.....lb. .2385- —
l.c.l.....lb. .2567- .3045
tanks.....lb. .2782- —
winterized, ref., tankcars, dlvd. East..lb. .27½- —
Spearmint, dms.....lb. 7.00 -10.00
Spikenard, bleached, 38°, dms.....lb. .2670- —
natural, 45°, dms.....lb. .2515- —
Spruce, cns., dms.....lb. 2.25 - 2.75
Sunflower-seed, imp., refined, tanks, lb. No prices
semi-refined, tanks.....lb. No prices
Sweet birch, Northern, cns.....lb. 4.50 - 8.00
Southern, cns.....lb. 2.70 - 3.25
Tall, crude, tanks, works.....ton. 40.00 - —
refined, dms., c.l., works.....lb. .0695- —
l.c.l., works.....lb. .0715- —
tanks works.....lb. .0595- —
Tallow, acidless, dms.....lb. .2125- —
Tansy, cns.....lb. 9.75 -14.00
Tar, pine, Comm., dms., incl., c.l., works, South..gal. .41 - .43½
l.c.l., works, South.....gal. .43 - .45½
wise., N.Y.C.....gal. .5234- .54½
tanks, works, South.....gal. .32 - .34½
rectified, USP, l.c.l., dms., incl., works, South..gal. .60 - —
Tar acid (see T).
Thyme, NF, red, cns.....lb. 2.60 - 3.35
white, cns.....lb. 2.85 - 3.80
technical, white cns.....lb. .35 - 1.00
Tung, dms., c.l.....lb. .2034- .204
l.c.l.....lb. .2134- .24
tanks.....lb. .22 - .224
Turkey red (see Oil, castor, sulphonated
Turpentine, rectified, NF, cns., dms. lb. .35 - .80
Vetiver, Bourbon, cns.....lb. 16.50 -28.00
Haitian.....lb. 17.50 -29.00
Whale, ref., natural, dms.....lb. No stocks
Winter-bleached, dms.....lb. No stocks
Wheat germ, dms.....gal. 16.00 -13.00
White mineral, tech., 50 vis., non-ret. dms., c.l., San Francisco..gal. .5134- —
l.c.l., S.F.....gal. .5334- .564
36-45 vis., dms., c.l., N. Y....gal. .45 - .5
l.c.l., N. Y.....gal. .48 - .53
60-75 vis., dms., c.l., N. Y....gal. .48 - .7
l.c.l., N. Y.....gal. .51 - .58
76 vis., non-ret. dms., c.l., S.F. gal. .5134- —
l.c.l., S. F.....gal. .5334- .564
USP, 80-90 vis., dms., c.l., N. Y. gal. .52 - .7
l.c.l., N. Y.....gal. .55 - .58
85 vis., non-ret. dms., c.l., S. F. gal. .5134- —
l.c.l. S. F.....gal. .5334- .564
100 vis., non-ret. dms., c.l., S. F. gal. .59 - —
l.c.l., S. F.....gal. .61 - .64
125-135 vis., dms., c.l., N. Y..gal. .64 - .7
l.c.l., N. Y.....gal. .67 - .73
145 vis., non-ret. dms., c.l., S. F. gal. .68 - —
l.c.l., S. F.....gal. .70 - .76
145-155 vis., dms., c.l., N. Y..gal. .66 - .7
l.c.l., N. Y.....gal. .69 - .73
175-185 vis., dms., c.l., N. Y..gal. .69 - .7
l.c.l., N. Y.....gal. .72 - .76
280 vis., non-ret. dms., c.l., S. F. gal. .70 - .7
l.c.l., S. F.....gal. .72 - .76



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ORANGE
U. S. P.

Oil, white mineral, USP, 200-210 vis., dms., c.l., N. Y. ..gal. .73 - —
l.c.l., N. Y. ..gal. .76 - .80
335-345 vis., dms., c.l., N. Y. ..gal. .81 - —
l.c.l., N. Y. ..gal. .84 - .88
340 vis., non-ret. dms., c.l., S. F. gal. .83 - —
l.c.l., S. F. ..gal. .85 - .88
Wintergreen, natural, Northern, cns.. lb. 7.00 -17.25
Southern, cns. ..lb. 3.65 - 6.50
synthetic (see Methyl salicylate).
Wool (see Oil, tung).
Wormseed, NF cns. ..lb. 3.75 - 5.50
Wormwood, cns. ..lb. 8.50 -13.50
Ylang-Ylang, Bourbon, extra, bots. lb. 9.50 -25.00
first, bots. ..lb. 9.75 -15.00
second, bots. ..lb. 7.00 -10.00
third, bots. ..lb. 3.50 - 7.50
Olein, crude (see Oil, red).
white, dms. ..lb. .27½- .28½
tankcars ..lb. .26 - —
low titre, dms. ..lb. .27½- .28½
tankcars ..lb. .26½- —
Oleostearin, tres. ..lb. .29 - —
Olivine, aggregate, c.l., mines... ton. 7.00 - 9.50
crushed, 8 mesh, bulk, c.l., works. ton. 10.00 - —
paper, bgs., c.l., works. ..ton. 12.00 - —
lumps, bulk, c.l., works. ..ton. 7.00 - —
Opium, USP, cns. ..lb. 19.45 - —
gran., USP, cns. ..lb. 21.90 - —
powd., USP, cns. ..lb. 21.90 - —
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies. .lb. 1.00 - —
Chrome, CP, bbls., dlvd N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Tenn. and N. C., E. of Minneapolis, Rock Island, St. Louis, St. Paul, contracts. ..lb. .29½- —
Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex.; 1c. El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Dinitroaniilin toner. ..lb. 1.15 - —
Molybdate, bbls. ..lb. .59 - —
Orthonitroanilin toner, bbls., kgs., works. .lb. 1.00 - —
Persian, bbls. ..lb. .30 - .45
Orange flowers, bls. ..lb. .40 - .45
Orange mineral, American bbls., 5 tons, ship't point, frt. alld. ..lb. .20½- —
smaller lots, bbls., same basis, lb. .21 - —
Orange peel, bitter, Haitian, bls. .lb. .13 - .14
Sweet, bls. ..lb. .14 - .16
Origano, Mexican, bgs. ..lb. .16½- .17
Portuguese, bgs. ..lb. .19 - .19½
Sicilian, bgs. ..lb. .18 - .18½
Orris root, Florentine, bls. ..lb. .28 - .29
powdered, bbls., bxs. ..lb. .32 - .33
Verona, bls. ..lb. .18 - .19
powdered, bbls., bxs. ..lb. .22 - .23
Orthoaminobiphenyl dms., c.l., works, lb. .28½- —
l.c.l., same basis. ..lb. .29 - —
tanks, same basis. ..lb. .27 - —
Orthoamylphenol, dms., l.c.l., works, lb. .42 - —
Orthoanisidin, bbls. ..lb. .80 - —
Orthochloroanilin, dms., 10,000 lbs. or more. .lb. .60 - —
smaller lots ..lb. .62 - .67
Orthochloroparanitroanilin, dms., works, lb. .65½- .81
Orthochlorophenol, dms. ..lb. .28 - —
Orthocresol, pure, 30°, dms., c.l., works. .lb. .35 - —
l.c.l., works ..lb. .35½- —
tech., 29°-30°, dms., c.l., works. .lb. .34 - —
l.c.l. works ..lb. .34½- —
28°-29°, dms, c.l., works. ..lb. .28½- .28¾
l.c.l., same basis. ..lb. .26½- .28¾
tanks, same basis. ..lb. .27½- —
Orthodichlorobenzene, dms., c.l., wks., frt. alld. E. of Rockies. .lb. .07½- .08¾
l.c.l., same basis. ..lb. .09½- .10¾
tanks, same basis. ..lb. .07 - .08
Orthodichlorobenzene prices W. of Rockies 1c. per lb. higher.
Orthoisopropyl N-phenylcarbamate (see IPC).
Orthonitroanilin, dms ..lb. .70 - .83
Orthonitrochlorobenzene, dms. ..lb. .13 - .15
Orthonitrobiphenyl, tech., dms., c.l., works. .lb. 15½- —
l.c.l., works ..lb. .16 - —
tanks, works ..lb. .14 - —
Orthonitroparachlorophenol, cns. ..lb. .75 - —
Orthonitrophenol, dms. ..lb. .66 - —
Orthonitrotoluene, dms. ..lb. .17 - —
Orthophenetidin, dms. ..lb. .90 - —
Orthotolidin, distilled, kgs. ..lb. 1.00 - —
Orthotoluidin, dms. ..lb. .18 - .20
Orange orange crystals, bbls., l.c.l. .lb. .33½- —
extract, liquid, bbls., l.c.l. ..lb. .17½- —
Oxabaine, USP, bots. ..gram. 3.00 - 4.00
Oxyquinolin sulphate, cns., 100 lbs., works. .lb. 6.40 - —
smaller lots, works. ..lb. 6.55 - 7.40

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Papain, powd., cs. ..lb. 4.20 - 5.00
Papaverine, natural or synthetic, hydrochloride, N.F., cns., 1,000-oz. lots, oz. 6.00 - —
smaller lots. ..oz. 6.30 - 6.50
Sulphate, cns. ..oz. 7.10 - 7.35
Paprika, Chilean, bgs. ..lb. .27 - .29
Portuguese, bgs. ..lb. .35 - .36
Spanish, bgs. ..lb. .41 - .44
Para-anisidin, dms., works. ..lb. .75 - —
Parachlorophenol, dms., c.l., works. .lb. .27 - —
l.c.l., works ..lb. .28 - .33
Parachloroanilin, dms., frt. alld. E. Miss. .lb. .70 - —
Parachloro-orthonitroanilin, dms. ..lb. No stocks
Paracresol, 98%, dms., works. ..lb. .45 - —
Paracymene, dms., c.l., works. ..lb. .13½- —
l.c.l., works. ..lb. .16½- —
tanks, works. ..lb. .13½- —
Paradibromobenzene, bgs., 600-lb. lots, works. .lb. .45 - —
Paradichlorobenzene, dms., c.l., works, lb. .12½- .13½
l.c.l., same basis. ..lb. .14 - .15½
Paraffin, crude, scale, white or yellow, 119-121 ASTM, bbls., c.l., refinery. .lb. .0725- —
121-123 ASTM, bbls., c.l., ref'y, lb. .0725- —
126-128 ASTM, bbls., c.l., ref'y, lb. .0775- —
fully ref'd, slabs, 122-124 ASTM, loose, c.l., ref'y. .lb. .0735- —
125-127 ASTM, loose, c.l., ref'y. .lb. .0765- —
128-130 ASTM, loose, c.l., ref'y. .lb. .0790- —
130-132 ASTM, loose, c.l., ref'y. .lb. .0805- —
132-134 ASTM, loose, c.l., ref'y. .lb. .0830- —
133-137 ASTM, loose, c.l., ref'y. .lb. .0895- —
Paraffin prices in bgs., ½c. per lb. higher; in cns., 4/5c. per lb. higher; 1,000 to 9,999 lbs. in cns., 2.80c. per lb. higher, and under 1,000 lbs. in cns. 3.80c. per lb. higher.
Paraformaldehyde, dms., 1,000 lbs., works. .lb. .24 - —
smaller lots, works. ..lb. .25 - —
Paraldehyde, tech., 98%, 55 gals., dms., l.c.l., works. .lb. .12½- .13½
5-10-gal. dms., l.c.l., works. ..lb. .16½- —
tanks, works. ..lb. .11 - —
USP, cbys. ..lb. .37 - .40
Paranitroanilin, kgs., works. ..lb. .43 - —
Paranitrochlorobenzene, kgs., works. lb. .13 - —
Paranitrophenol, kgs., works, frt. equald. .lb. .40 - —
Paranitrotoluene, kgs., works. ..lb. .36½- —
Paraphenylphenol, bgs., works. ..lb. .27 - .28
Paraphenylenediamine, tech., kgs., works. .lb. 1.30 - —
Paratertiarybutylphenol, bgs., works, lb. .19 - .20
Paratoluenesulphonamide, bbls., works, lb. .70 - —
Paratoluidin, bbls., works. ..lb. .55 - .58
Paris green, dealer, distributor, dms., kgs., c.l., works, frt. alld. E. lb. .31 - —
l.c.l., same basis. ..lb. .32 - .33
Passion flower herb, bls. ..lb. .28 - .30
Patchouli leaves, bls. ..lb. .45 - .50
Pectin, citrous, bbls. ..lb. 1.25 - —
Penicillin G, amorph., calcium, bulk, 1,000,000,000-unit lots, 100,000 units. .11 - .12
sodium, wholesalers, bots. (100,000 units). .bot. .24 - .25
cryst., sodium, wholesalers (100,000 units). .bot. .24 - .25
(200,000 units). ..bot. .432 - —
bulk, 1,000,000,000-unit lots, 100,000 units. .12½- .14½
procaine, cryst., bulk, 100,000,000-unit lots, 100,000 units. .15 - —
in oil, 10 c.c. bots. of 300,000 units, wholesalers. .bot. 8.00 -10.00
Pennyroyal leaves, bls. ..lb. .25 - .30
Pentachlorophenol, dms., works. ..lb. .20 - .25
Pentaerythritol, tech., bbls., c.l., works. .lb. .32 - —
l.c.l., works. ..lb. .34 - .36
Pentane, industrial, tanks, group 3 gal. .16½- .11½
Pepper, black, bgs. ..lb. .57 - .58
futures, bgs., nearby. ..lb. .57 - .58
distant ..lb. .58 - .59
Red, capsicum, Louisiana longs, bgs., shipment point. lb. .18 Nom.
Mombasa, bgs. ..lb. No stocks
Niger, bgs. ..lb. .25 - .25½
birdseye, bgs. ..lb. .30 - .30½
Sierra Leone, futures. ..lb. .23 Nom.
Chillies, Haitian, bgs. ..lb. No stocks
Mexican, long. ..lb. No stocks
White, bgs. ..lb. .69 - .70
Peppermint, USP, dom., bls. ..lb. .65 - .70
imported, bls. ..lb. .75 - .80
Perchloroethylene, dms., c.l., zone 1, works, frt. alld. .lb. 10¾- —
zone 2, same basis. ..lb. 11¼- —
zone 3, same basis. ..lb. 11¾- —
zone 4, same basis. ..lb. 11¼- —
l.c.l., zone 1, same basis. ..lb. 11½- —
zone 2, same basis. ..lb. 12 - —
zone 3, same basis. ..lb. 12½- —
zone 4, same basis. ..lb. 12 - —
tanks, zone 1, same basis. ..lb. 10½- —
zone 2, same basis. ..lb. 10¾- —
zone 3, same basis. ..lb. 11¼- —
zone 4, same basis. ..lb. 10¾- —
Perchloroethylene zones are:—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont. (6) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W.), Nev., Ore., Utah, Wash.
Peru balsam, dms. ..lb. .75 - .80
Petrolatum, tech., dark, bbls., c.l., group 3. .lb. .021 - —
f.o.b. Indiana refy. ..lb. .04½- —
golden topaz, bbls., c.l. ..lb. .022 - —
l.c.l. ..lb. .036 - —
red, veterinary, bbls., c.l. ..lb. .024 - —
l.c.l. ..lb. .028 - —
USP, amber, non-ret. dms., c.l. lb. .01½- —
Pennsylvania refy. ..lb. .04½- —
l.c.l. ..lb. .05½- —
California refy. ..lb. .03½- —
cream, c.l. dms. ..lb. .06½- —
l.c.l. ..lb. .08½- —
extra, amber, dms., c.l. ..lb. .05 - —
Pennsylvania refy. ..lb. .04½- —
l.c.l. ..lb. .06½- —
white, lily, dms., c.l. ..lb. .06½- —
l.c.l. ..lb. .08½- —
snow, dms., c.l. ..lb. .07½- —
Pennsylvania refy. ..lb. .07½- —
l.c.l. ..lb. .09½- —
California refy. ..lb. .12 - —
soft, dms., c.l. ..lb. .06½- —
Pennsylvania refy. ..lb. .06½- —
l.c.l. ..lb. .07½- —
California refy. ..lb. .10 - —
yellow, soft, dms., c.l. ..lb. .04½- —
Pennsylvania refy. ..lb. .04½- —
l.c.l. ..lb. .06 - —
California refy. ..lb. .08½- —
Petroleum, crude, bulk, at wells, California. .bbl. 1.94 - 2.89
Illinois ..bbl. 2.65 - 2.77
Kentucky ..bbl. 2.60 - 2.77
Louisiana-Arkansas ..bbl. 2.14 - 2.75
Montana ..bbl. 2.50 - 2.65
Oklahoma-Kansas ..bbl. 2.23 - 2.65

KELLOGG POLYMERIZED OILS

● The wide selection of Spencer Kellogg Polymerized Oils gives to users a complete choice of specifications suited to their various needs.

Two groups of these oils...the KPO Oils polymerized in a carbon dioxide atmosphere to prevent oxidation . . . and the OKO Oils polymerized under vacuum . . . afford selection of color, acid value and viscosity to meet the needs of any formulation.

Kellogg representatives throughout the country are fully informed as to the chemical constants of standardized oils, and the Spencer Kellogg Technical Service Department invites correspondence about oils of special specifications.

★ OKO

★ KPO

★ T1215

SPENCER KELLOGG AND SONS, INC.
BUFFALO 5, N. Y.
The First Name in Vegetable Oils

Petroleum, Crude—Pimento

Petroleum, crude, Pennsylvania, lower field..bbl. 5.00 - —
Upper field..bbl. 3.10 - 5.00
Texas, East..bbl. 2.65 - —
Gulf coast..bbl. 2.38 - 2.95
North, North-Central..bbl. 2.23 - 2.65
Panhandle..bbl. 2.23 - 2.65
West..bbl. 2.10 - 2.52
Wyoming..bbl. 1.90 - 2.65

Ether, laboratory, 80°-60° C, cns., dlvd. E..gal. 1.50 - —
dms., c.l., group 3..gal. .26 - —
l.c.l., same basis..gal. .44 - —
85°-60° C, 10-gal. cns., dlvd. E..gal. 1.50 - —
dms., c.l., Group 3..gal. .26 - —
l.c.l., same basis..gal. .44 - —
40°-75° C, 10-gal. cns., dlvd. E..gal. 1.50 - —
dms., c.l., Group 3..gal. .26 - —
l.c.l., same basis..gal. .44 - —
90°-160° C, ret. dms., ex-tax, f.o.b. San Francisco..gal. .57 - —

Fuel oil, bunker C (No. 6), California, heavy tanks, refinery..bbl. 2.10 - 2.20
light, tanks, refinery..bbl. 2.35 - 2.40
Eastern, tanks, Albany, N.Y..bbl. 3.249 - —
Baltimore, Md..bbl. 3.03 - 3.17
Boston, Mass..bbl. 3.055 - 3.315
Charleston, S. C..bbl 2.96 - —
Jacksonville, Fla..bbl. 2.99 - 3.03
New York, N. Y..bbl. 3.03 - 3.27
Norfolk, Va..bbl. 3.00 - 3.04
Philadelphia, Pa..bbl 3.03 - 3.17
Portland, Me..bbl. 3.095 - 3.115
Providence, R. I..bbl 3.045 -3.085
Savannah, Ga..bbl. 2.99 - 3.03

Petroleum, fuel oil, Diesel, tanks, refinery, California..gal. .0785- .096
Pennsylvania..gal. .11 - .125
Furnace, tanks, refinery, Arkansas, No. 2..gal. .09125- —
No. 3..gal. .08875- —
Bayonne, N. J., No. 2..gal. .094 - —
Group 3, No. 1..gal. .09125- .09625
No. 1, straw..gal. .08875- —
No. 2, straw..gal. .09 - 10
No. 3..gal. .09125- —
range..gal. .09375- .0975
Pennsylvania, No. 1..gal. .1125- .13
No. 2..gal. .11 - .13
No. 3..gal. .11 - .125

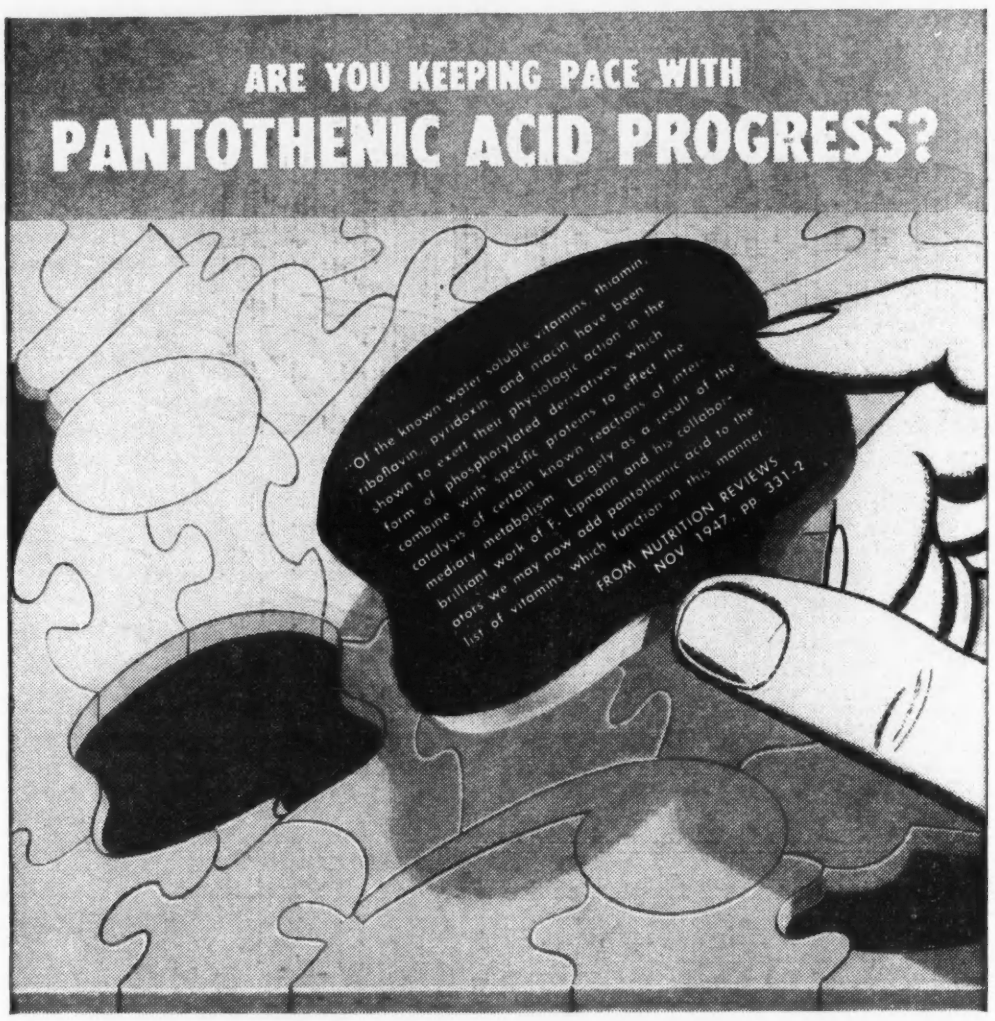
Lacquer diluent, California, 170-255 F. b.r., tanks, ex-tax, f.o.b. Los Angeles..gal. .147 - —
Portland, Ore..gal. .158 - —
San Francisco..gal. .152 - —
Seattle, Wash..gal. .158 - —
East coast, tanks, N. J. and N. Y. refinery..gal. .16 - —
Hexane-type, tanks, Bayonne, N.J. gal. .16 - —
Group 3, benzol-type, tanks, refinery..gal. .1225- .13
toluol-type, tanks, refinery..gal. .1225- .13
Mineral spirits, California, 170-255 b.r., tanks, ex-tax, f.o.b. San Francisco..gal. .152 - —
205-295 b.r., tanks, same basis..gal. .152 - —
245-360 b.r., tanks, same basis..gal. .152 - —
305-362 b.r., tanks, same basis..gal. .142 - —
312-400 b.r., tanks, same basis..gal. .142 - —
360-455 b.r., tanks, same basis..gal. .152 - —

Petroleum, mineral spirits, East coast, tanks, N. J., N. Y., refinery..gal. .14 - —
Group 3, tanks..gal. .1025- .118
Gulf coast, tanks, refinery..gal. .0875- —
tankwagon, Baltimore..gal. .175 - —
Boston..gal. .16 - —
Buffalo..gal. .165 - —
Camden, N. J..gal. .15 - —
Chicago..gal. .194 - —
Detroit..gal. .211 - —
Kansas City, Mo..gal. .182 - —
Lancaster, Pa..gal. .16 - —
Newark..gal. .15 - —
New York..gal. .15 - —
Philadelphia..gal. .15 - —
Pittsburgh..gal. .175 - —
Providence..gal. .165 - —
Rochester..gal. .175 - —
St. Louis..gal. .189 - —
Syracuse..gal. .185 - —
Washington, D. C..gal. .175 - —
Naphtha, cleaners, California, tanks, San Francisco..gal. .123 - —
East coast, tanks, N. J., N. Y., refinery..gal. .14 - —
Group 3, tanks..gal. .10625- .12
tankwagons, St. Louis..gal. .1470- —
tankwagon, Newark..gal. .15 - —
Chicago..gal. .14½- —
Detroit..gal. .15½- —
New York..gal. .15 - —
Philadelphia..gal. .15 - —
high-flash, 140° F. group 3, refinery, tanks..gal. .13 - .145
high-solvency, tanks, refinery, 200-285 b.r., 37-38° C, mixed anilin pt..gal. .22 - —
25-26° C. m.a.p..gal. .21 - .26½

Petroleum naphtha, high-solvency, tanks, 270-370 b.r., 78-81° C, m.a.p. gal. 24½- 26
49° C, m.a.p..gal. .29 - —
26° C, m.a.p..gal. .21 - .26
300-400 b.r., 26-32° C, m.a.p. gal. .21 - .26½
340-410 b.r., 32° C, m.a.p..gal. .21 - —
36° C, m.a.p..gal. .21 - .26½
340-440 b.r., 32° C, m.a.p..gal. 26½- —
360-480 b.r., 25° C, m.a.p..gal. .21 - —
V.M.&P., California, 245-360 b.r., tanks, ex-tax, f.o.b. Los Angeles..gal. .147 - —
Portland, Ore..gal. .158 - —
San Francisco..gal. .152 - —
Seattle, Wash..gal. .158 - —
Calif., 205-290 b.r., tanks, ex-tax, f.o.b. Los Angeles..gal. .147 - —
Portland, Ore..gal. .158 - —
San Francisco..gal. .152 - —
Seattle, Wash..gal. .158 - —
East coast, N. J., N. Y., tanks.. gal. .15 - —
Group 3, tanks..gal. .1125- .12
Gulf coast, tanks, New Orleans..gal. .10 - —
tankwagon, Boston..gal. .175 - —
Chicago..gal. .204 - —
Detroit..gal. .221 - —
Milwaukee..gal. .207 - —
Minneapolis..gal. .205 - —
Newark..gal. .165 - —
New York..gal. .165 - .17
Philadelphia..gal. .165 - —
Pittsburgh..gal. .185 - —
St. Louis..gal. .199 - —
Solvent, rubber, California, tanks, ex-tax, San Francisco..gal. .152 - —
East coast, N. J., N. Y., gal. .15 - —
Group 3 tanks..gal. .11 - .175
Stoddard (CS 8-33), California, tanks, ex-tax, San Francisco. gal. .142 - —
East coast, N. J., N. Y., tanks..gal. .14 - —
Group 3, tanks..gal. .11 - .175
Pennsylvania, western, tanks, gal. .10 - —
tankwagon, Boston..gal. .16 - —
Chicago..gal. .15½- —
Detroit..gal. .17½- —
Milwaukee..gal. .16½- —
Minneapolis..gal. .164 - —
Newark..gal. .15 - —
New York..gal. .15 - —
Philadelphia..gal. .15 - —
Pittsburgh..gal. .15 - —
St. Louis..gal. .17 - —
Syracuse..gal. .17 - —
Sulphonate, 70% sulphonic content, ret. dms., c.l., works..lb. .15½- —
lb. .15½- —
l.c.l., works..lb .15½- —
tanks, works..lb. .13¾- —
60% sulphonic content, ret. dms., c.l., works, lb. .12¾- —
l.c.l., works..lb. .12½- —
tanks, works..lb. .10¾- —
Phenobarbital, dms., 100 lbs..lb. 4.60 - 4.83
Phenol, 90-92% (cresol, 8-10%), dms., c.l., works, frt. equald..lb. .13½- .16
l.c.l., same basis..lb. .14¼- .16½
tanks, same basis..lb. .12½- .15
82-84% (cresol, 16-18%), dms., c.l., same basis..lb. .14¼- .16½
l.c.l., same basis..lb. .15 - .17½
tanks, same basis..lb. .13¾- .17½
USP, dms., c.l., same basis..lb. .13 - .17½
l.c.l., same basis..lb .13¾- .16
tanks, same basis..lb. .12 - .14
Phenolphthalein, USP, yellow, bbls., dms., 2,000 lbs. lb. .92 - —
smaller lots..lb. .93 - .98
Phenothiazin, NF, fib dms., ton lots, works..lb. .49 - —
smaller lots, works..lb. .54 - —
Phenylacetaldehyde solution, 50%, bots lb. 2.35 - 2.75
pure, bots..lb. 4.00 - 4.80
Phenyl acetate, dms., 100-lb. bots, works..lb. .50 - —
Phenyldiethanolamine, dms., c.l., wks. lb. .34½- —
l.c.l., works..lb. .35 - —
Phenylethanolamine, dms., c.l., works, lb. .64½- —
l.c.l., same basis..lb. .65 - —
Phenylethyl acetate, dms..lb. 1.65 - 2.50
Phenylethylphenyl acetate, bots..lb. 4.50 - 6.50
Phenylhydrazin base, CP, bots..lb. 3.00 - 3.07
Hydrochloride, CP, bots., works..lb. 5.00 - 5.07
commercial, kgs., works..lb. 1.75 - —
Phenylmethylpyrazolone, dms., works, lb. 1.58 - 1.68
Phloroglucinol, CP, fib dms..lb. 13.75 - —
tech., fib. dms..lb 10.00 - —
Phosgene, 150-lb. cyls., works..lb. 20½- 22
10-lb. cyls., works..lb. 1.50 - —
Phosphate, defluorinated (see under D.)
Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 68-66% b.p.l., bulk, c.i., car at mine..long ton. 4.61 - —
70%-68%, b.p.l., c.i., same basis..long ton. 5.01 - —
72%-70%, b.p.l., c.i., same basis..long ton. 5.31 - 5.61
75%-74%, b.p.l., same basis. long ton. 6.31 - 6.51
77%-76%, b.p.l., c.i., same basis..long ton. 7.31 - —
finely ground, 65.5% b.p.l., basis 30% P_2O_5 minimum. short ton. 5.78 - —
68%, b.p.l, basis 31% P_2O_5 minimum..short ton. 5.98 - —
70%, b.p.l., basis 32% P_2O_5 minimum..short ton. 6.93 - —

Prices for Florida phosphate rock are f.o.b. usual bonus penalty clause on oil and land pebble. Prices on entirely pebble, 50c. per long ton higher than above quotations.

Tennessee, brown, run-of-mine, unground, 27-26% P_2O_5..long ton 6.00 - —
30-29% P_2O_5..long ton. 6.75 - —
Phosphorus, red, amorphous, cs..lb. .33 - .38
tins, export..lb. .40 - .43
Yellow, cns..lb. .30 - .33
dms., c.l..lb. .26 - .28
Oxychloride, dms., works..lb. .12 - .13
Pentoxide, dms., c.l., works..lb. .12 - .13
l.c.l., works..lb. .13 - .14
Sesquisulphide, tins, cs., works..lb. .28 - .30
Trichloride, dms., c.l., works..lb. .12 - .13
l.c.l., works..lb. .13 - .14
Phthalamide, bbls., works..lb. .35 - .40
kgs., works..lb. .45 - .50
Phthalic anhydride, bgs., bbls., c.l., works, frt. equald..lb. .19½- .21
Pacific Coast, dlvd..lb. .21½- .23
l.c.l., same basis..lb. .20½- .22½
Pacific Coast, dlvd..lb. .23¼- .25
Pichi leaves, bgs..lb. .07 - .10
Picoline (see Alphapicoline and Betapicoline).
Picrotoxin, bots..oz. 8.00 - —
Pilocarpine hydrochloride, USP, bots., vials..oz. 6.50 - 7.00
Nitrate, bots. vials..oz. 6.25 - 7.00
Pimento, Jamaica, bgs..lb. .23½- .25


ARE YOU KEEPING PACE WITH
PANTOTHENIC ACID PROGRESS?
"Of the known water soluble vitamins thiamin, riboflavin, pyridoxin and niacin have been shown to exert their physiologic action in the form of phosphorylated derivatives which combine with specific proteins to effect the catalysis of certain known reactions of intermediary metabolism. Largely as a result of the brilliant work of F. Lipmann and his collaborators we may now add pantothenic acid to the list of vitamins which function in this manner."
FROM NUTRITION REVIEWS NOV 1947, PP 331-2

Thiamin, riboflavin, pyridoxin, niacin and *pantothenic acid* — these 5 B-Vitamins are essential for the effectiveness of your multi-vitamin and B-Complex formulas. And—as more and more is learned about the role of pantothenic acid in nutrition, more and more professional attention will be focused on this *5th factor* in your formulas.

Keep pace with pantothenic acid progress! Write today for your copy of NOPCO'S new technical service folder — "Pantothenic Acid, Vitamin with a Future." This brief, informative folder will help you decide *how much* Calcium Pantothenate to use in your Vitamin Products, for proper effectiveness. Write NOPCO — Special Markets Dept., Harrison, New Jersey. Ask for "Pantothenic Acid — Vitamin with a Future."

NOPCO OFFERS
dl-Calcium Pantothenate-Nopco . . . a white, odorless powder, guaranteed 49% active, priced to permit a 20% saving in cost.

ALSO AVAILABLE
- Calcium Pantothenate Dextrorotatory-Nopco . . . the pure, white, odorless, 100% active crystalline salt.
- Beta-Alanine . . . important ingredient in pantothenate production.

FINE CHEMICALS DIVISION
NOPCO CHEMICAL COMPANY, Harrison, N.J.
Formerly National Oil Products Company

PIONEER PRODUCERS OF CALCIUM PANTOTHENATE, NATURAL A AND D CONCENTRATES, AND VITAB RICE BRAN CONCENTRATE . . . A NATURALLY RICH SOURCE OF PANTOTHENIC ACID.

NOPCO REGISTERED TRADEMARK EVOLVED THRU RESEARCH

ESTABLISH A DEPENDABLE SOURCE OF SUPPLY

Ammonium Bifluoride
Ammonium Carbonate
Benzene Hexachloride
Benzoic Acid
Bicarbonate of Soda
Bisulphate of Soda (Globular)
Carbon Tetrachloride
Caustic Potash
Chloride of Lime
DDT
Dicalcium Phosphate
Disodium Phosphate
DNCB
Magnesium-Zinc Fluosilicate Mixture
Gelatin
Lactic Acid
Magnesium Fluosilicate
Monocalcium Phosphate
Monosodium Phosphate
Muriatic Acid

Naphthalene
Nitric Acids
Orthodichlorobenzene
Paradichlorobenzene
Phosphate Paste
Phosphoric Acids
Phosphorous Pentasulfide
Phosphorous Pentoxide
Saccharin
Soda Ash
Sodium Acetate
Sodium Benzoate
Sodium Metasilicate, Pentahydrate
Sodium Metasilicate, Anhydrous
Sodium Sesquisilicate, Anhydrous
Sodium Orthosilicate, Anhydrous
Sulphuric Acids
Tri Sodium Phosphate
Sodium Fluosilicate
Zinc Fluosilicate

RN

RICHES-NELSON, INC.

Chemicals and Allied Products

342 MADISON AVENUE NEW YORK 17, N. Y.
TELEPHONE: MURRAY HILL 7-7267 CABLE ADDRESS: RICNELCHEM, N. Y.

Pinetar—Quebracho

Pinetar, retort, dms. incl., c.l., works, South..gal. .43½- —
l.c.l., same basis.....gal. .45½- —
whse., N.Y.C.....gal. .54½- —
tanks, works, South.....gal. .34½- —
Pinkroot, bls.....lb. 2.25 - 2.30
Piperidine, 95%, dms., frt. equald..lb. 1.65 - —
98%, same basis.....lb. 1.75 - —
Piperazine hexahydrate, bots.....lb. 8.50 - 9.00
Pipsissewa herb (see Prince's pine).
Pitch, coaltar, 150° m.p., bbls., c.l., works..ton.31.00 - —
l.c.l., works.....ton.34.00 - —
Cottonseed, dms., works.....lb. .10½- .10¾
Hardwood, paper bgs., works....lb. .01 - —
Linseed, dms.....lb. No prices
Petroleum (see Asphaltum, Mexican, Texas).
Pine, dms. ex whse. East...100 lbs. 6.90 - —
Soybean, dms., works.....lb. .10¾- .10¾
Plaster of paris (see Gypsum).
Platinum metal, works.....oz.88.00 -91.00
Podophyllin, dms.....lb.11.75 -13.50
Pokeroot, bls.....lb. .71 - .18
Polystyrene, plain colors, bgs., 30,000 lbs., works, frt. alld..lb. .33 - —
20,000 lbs., same basis.....lb. .34 - —
smaller lots, same basis....lb. .35 - .42
water-clear, bgs., 30,000 lbs., works, frt. alld..lb. .27 - —
20,000 lbs., same basis.....lb. .28 - —
smaller lots, same basis.....lb. .29 - .35
Plain color polystyrene prices in dms., ½c. per lb. higher.
Pomegranate root bark, bgs.....lb. .75 - .76
Poppy flowers, bls.....lb. .50 - .55
Seed, Danish, bgs., futures.....lb. .24½- .25
Dutch, bgs.....lb. .21½- .22
Turkish, bgs.....lb. .14½- .15
futures, bgs.....lb. .14 - .14½
Potash, caustic, low-chloride, flake, 90%, dms., c.l., works..100 lbs. 9.60 - —
l.c.l., works.....100 lbs.10.35 - —
liquid, dms., c.l., works..100 lbs. 9.00 - —
l.c.l., works.....100 lbs. 9.75 - —
tanks, works.....100 lbs. 8.25 - —
solid, 90%, dms., c.l., works..... 100 lbs. 9.00 - —
l.c.l., works.....100 lbs. 9.75 - —
regular, flake, 88-92%, dms., c.l., works..lb. .0785- —
l.c.l., works.....lb. .0860- —
liquid, 45% basis, dms., c.l., works..lb. .03575- —
l.c.l., same basis.....lb. .0395- —
tanks, same basis.....lb. .03¼- —
solid, 88-92%, dms., c.l., works.lb. .07¼- —
l.c.l.....lb. .08 - —
Potassium abietate.....lb. .08 - —
Acetate, USP, dms.....lb. .28 - .30
Bicarbonate, USP, gran., dms.....lb. .20 - .22
powd., dms.....lb. .22 - .24
Bichromate, bgs., c.l., works.....lb. .12¼- —
l.c.l.....lb. .12¾- .12½
Potash bichromate in bbls., ¼c. higher.
Borate, gran., bbls., c.l., works..ton.200.00 - —
ton lots, works.....ton.218.50 - —
less ton lots, works.....ton.223.50 - —
Bromate, bbls., 1,000 lbs. or more. lb. .48 - —
25-200 lbs.....lb. .60 - —
Potassium bromide, USP, cryst., gran., bbls., kgs..lb. .33 - .34
Carbonate, tech., calcined, bbls., c.l., works..lb. .07½- —
l.c.l., same basis.....lb. .08 - —
hydrated, 83-85%, bbls., c.l., works..lb. .06 - —
dms., l.c.l., works.....lb. .06½- —
Carbonate, USP, gran., bbls., dms.lb. .16 - .18
powd., bbls., dms.....lb. .21 - .23
Chromate, tech., bgs.....lb. .25 - .29
Chlorate, cryst., kgs., c.l., works. lb. .08½- —
l.c.l., works.....lb. .09½- —
powd., dms., kgs., c.l., works..lb. .09 - —
l.c.l., works.....lb. .09¾- —
export, kgs., 1 to 10 tons, ex whse..lb. .12 - —
Chloride, USP, cryst., bbls.....lb. .26 - .27
gran., bbls.....lb. .20 - .22
powd., bbls.....lb. .29 - .32
Citrate, USP, gran., bbls., dms...lb. .35½- .40½
Potash citrate, USP, powd., 3c. per lb. higher.
Cyanide, dms., works.....lb. .55 - —
Fluoride, dms., works.....lb. .24 - —
Glycerophosphate, 75% solution, cbys. lb. 2.05 - 2.20
Guaiacol sulphonate, NF, dms....lb. 1.80 - 1.85
Hydroxide, tech. (see Potash, caustic).
USP, sticks, cns.....lb. .34 - .36
Hypophosphite, dms.....lb. .78 - —
Iodide, dms.....lb. 1.05 - 1.08
Manure salt, 22% K_2O, bulk, mines.. unit-ton. .20 - —
25% K_2O, bulk, mines..unit-ton. .21 - —
Metabisulphite, gran., bbls.....lb. .19 - .21
powd., bbls.....lb. .25 - —
Potassium muriate, dom., 60% K_2O, bulk, Carlsbad, N. M.unit-ton. .37½- —
Trona, Cal.....unit-ton. .45½- —
Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls., dms..lb. .28 - .34
Perchlorate, kgs., works.....lb. .12½- .14
Permanganate, tech., kegs, works. lb. .21¾- .22¼
USP, dms., works.....lb. .23½- .24
Persulphate, dms., c.l., works.....lb. .17 - —
l.c.l., works.....lb. .21 - —
Phosphate, tetrabasic, bbls., works. lb. .13 - .13½
Prussiate, red, kgs.....lb. .55 - .58
Yellow, bbls.....lb. .19 - —
Ricinoleate, tech., bbls.....lb. .18 - —
Silicate, glass, bgs., c.l., works..ton.200.00 - —
l.c.l.....100 lbs.15.25 - —
solution, 22° Be. ret, drums, c.l., works..100 lbs. 4.25 - —
l.c.l., 5 or more, works..100 lbs. 5.00 - —
1-4, works.....100 lbs 5.50 - —
32° Be, ret. dms., c.l., works... 100 lbs. 4.75 - —
l.c.l., 5 or more, works. 100 lbs. 5.50 - —
1-4, works.....100 lbs. 6.00 - —
40.5° Be, ret. dms., c.l., works. 100 lbs. 5.75 - —
l.c.l., 5 or more, works. 100 lbs. 6.50 - —
1-4, works.....100 lbs. 7.00 - —
Silicofluoride, dms., works.....lb. .09 - —
Sulphate, NF, cryst., bbls.....lb. .31 - .33
powd., bbls.....lb. .14½- .15
tech., dom., bulk, basis 90-95% K_2O_4 min. 90%, works..ton.32.50 - —
Sulphocyanide, cryst., NF (see potassium thiocyanate).
Thiocyanate, cryst., NF, dms.....lb. .70 - .78
tech., works.....lb. .45 - .50
Titanate, cns., c.l., works.....lb. .12 - —
5 tons, works.....lb. .12½- —
2,000 lbs. or less, works.....lb. .12½- .13
Xanthate, dms., c.l.....lb. .12 - —
Potassium-magnesium sulphate, bulk, min., 40% K_2SO_4, 18-50% MgO, works..ton.14.50 - —
Potassium-sodium ferricyanide, kgs., works..lb. .45 - .48
Potassium-sodium tartrate (see Rochelle salt).
Potassium - titanium oxalate, bbls., dms..lb. .50 - .53
Prickly ash bark, bls.....lb. .28 - .33
Berries, bgs.....lb. .20 Nom.
Prince's pine herb, bls.....lb. .55 - .60
Procaine hydrochloride, cns., 200-lb. lots..lb. 4.75 - —
smaller lots.....lb. 5.00 - 5.75
Propane, commercial grade, tanks, group 3..gal. .057 - —
Propionaldehyde, dms., c.l., works..lb. .16½- —
l.c.l., works.....lb. .17 - —
tanks, works.....lb. .15 - —
Propyl aldehyde (see Propionaldehyde).
Propyl acetate, dms., c.l., works....lb. .19½- —
l.c.l., works.....lb. .20½- —
tanks, works.....lb. .18 - —
tankwagons, works.....lb. .18½- —
Propylene dichloride, dms., c.l.....lb. .08½- —
l.c.l.....lb. .09½- —
smaller containers.....lb. .12½- —
tanks.....lb. .07 - —
Oxide, dms., c.l., frt alld. E.....lb. .20½- —
l.c.l., frt. alld. E.....lb. .21½- —
tanks, frt. equald.....lb. .18½- —
Propyleneglycol, N.F., dms., c.l., frt. alld. E..lb. .17 - —
l.c.l., same basis.....lb. .18 - —
tanks, same basis.....lb. .15½- —
Propylthiouracil, bots. works.....kilo 50 00 - —
Psyllium seed (see Fleaseed).
Pulsatilla herb, bls.....lb. .55 - .60
Pumice, dom., grd., course, 0, 1, 1½, 2, 3, bgs., ton lots..lb. .03¾- .04
Chicago.....lb. .04½- —
smaller lots.....lb. .03¾- .04¼
fine, bgs., ton lots.....lb. .03¾- —
smaller lots.....lb. .03¾- .04
Italian, silk-screen, fine, bgs., ton lots..lb. .04 - —
coarse, bgs., ton.....lb. .05½- —
sun dried, fine, bgs., ton lots...lb. .03 - —
coarse, bgs., ton lots.....lb. .04¼- —
Pumice in bbls. is ½c. per lb. higher.
Pumpkin seed, bgs.....lb. .25 - .26
Purple lake (see Red)
Pyrethrum concentrate, dewaxed, 20%; for aerosol bombs, dms., works.lb. 7.00 - 7.25
liquid (20 to 1), basis 2 grams pyrethrins per 100cc., odorless base, dms., works..gal. 5.50 - —
regular base, dms., works..gal. 5.40 - —
(20 to 1), base 3 grams pyrethrins, per 100cc. odorless base, bbls., works..gal. 8.15 - —
regular base, dms., works.gal. 8.10 - —
Flowers, fine-grd., 0.9% pyrethrins, bbls., works..lb. .24½- .25
powder, 1.3% pyrethrins, bbls., works..lb. .35½- .42
Pyridin, denaturing, ret. dms., works. frt. equald..gal. 2.49 - 2.52
refd., 2° non-ret. dms., c.l., same basis..lb. .69 - .70
l.c.l., same basis.....lb. .69½- .70½
ret. dms., l.c.l., same basis....lb. .69 - .80
Pyridoxin hydrochloride, 100-gram lots. gram. .55 - —
Pyrites, Spanish, c.i.f. Atl. ports, long-ton. 8.00 - —
Pyrocatechin (see Catechol).
Pyrophyllite, standard, 200 mesh, bulk, c.l., mines..ton.11.00 11.50
230 mesh, bulk, c.l., mines..ton.12.00 - —
325 mesh, bulk, c.l., mines....ton.14.00 - —
No. 3, 200 mesh, bulk, c.l., mines, ton. 9.50 - —
insecticide grade, 200 mesh, bulk, c.l., mines..ton. 9.00 -10.00
rubber grade, 140 mesh, bulk, c.l., mines..ton. 7.00 - —
Pyrophyllite in paper bgs., $3 to $3.50 per ton extra.
Pyroxylin scrap, opaque, amber, cs., works..lb. .17 - —
black, cs., works.....lb. .14 - —
gray, cs., works.....lb. .14 - —
mixed, mottled, cs., works...lb. .12 - —
white, china, ivory, cs., works. lb. .17 - —
dense, cs., works.....lb. .17 - —
translucent, pastels, cs., works.lb. .17 - —
transparent, colorless, cs., works. lb. .19 - —
colors, cs., works.....lb. .17 - —
shavings, opaque, amber, cs., works. lb. .15 - —
mixed colors, cs., works.....lb. .14 - —
white, cs., works.....lb. .17 - —

Q

Quassia chips, bls.....lb. .07 - .09
Quebracho extract, clarified, grd., 70% tannin, bgs., c.l..lb. .17½- —
liq., 35% tannin, bbls., works.lb. .09½- —
tanks, same basis.....lb. .09 - —
solid, 64% tannin, bgs., c.l..lb. .14 - —
powd., 70% tannin, bgs., c.l..lb. .18 - —
ordinary, solid, 63% tannin, bgs., c.l., ex dock, duty extra..lb. .1275- —
Quebracho extract prices are based on $20 freight and $1 insurance per long ton.

World Premiere!

Clearsite* PLASTIC VIALS

now available in

RIGID POLYSTYRENE and FLEXIBLE POLYETHYLENE

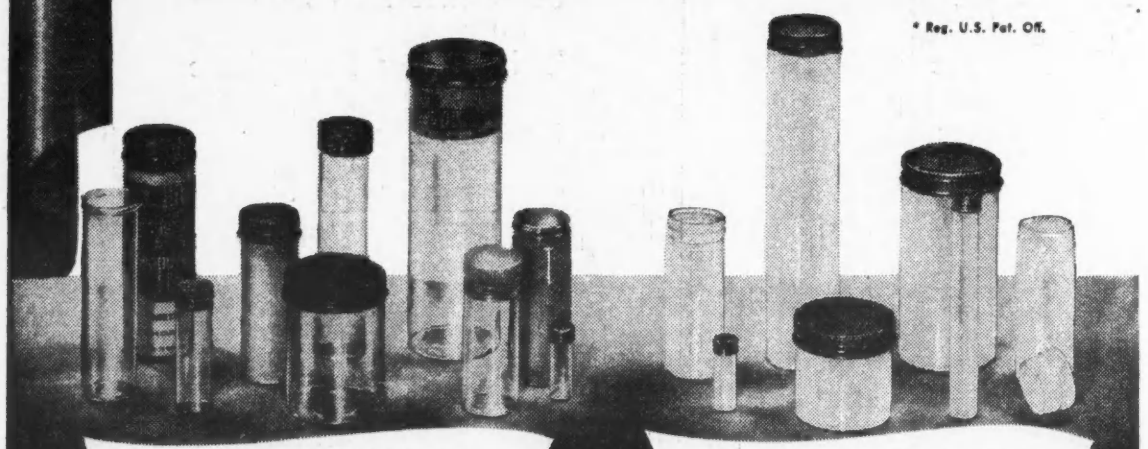
– in a complete range of stock sizes

DRAMATIC, exciting news! Now Celluplastic Corporation, "America's #1 Source for Plastic Containers," presents a *complete* line of CLEARSITE streamlined plastic vials — in rigid polystyrene and flexible ("squeezable") polyethylene. *Complete* range of stock sizes: diameters from ⅜" to 1¾" — in various lengths. Also special sizes and shapes to order. *Complete* range of colors. Dependable uniformity. Shipped without breakage and without need for bulky packing material.

CLEARSITE plastic vials are also produced in cellulose acetate, cellulose acetate butyrate, ethyl cellulose and all other thermoplastics. All types of closures available.

For eye-appeal, product protection, sales-building display and transportation economies, use CLEARSITE vials. Write Celluplastic Corporation today for samples, literature and additional information.

* Reg. U.S. Pat. Off.



CLEARSITE RIGID POLYSTYRENE VIALS

Sparkling, crystal-clear and gem-like colors. 70% lighter than glass. Shatterproof. Transparent, translucent and opaque. Tasteless. Odorless. Not affected by alkalis, alcohols or weak acids. Permanent label imprinted during manufacture.

CLEARSITE FLEXIBLE POLYETHYLENE VIALS

"Squeezable." All colors. 75% lighter than glass. Non-breakable. Translucent and opaque. Tasteless. Odorless. Not affected by alkalis, acids or alcohols.

"AMERICA'S #1 SOURCE FOR PLASTIC CONTAINERS"

Celluplastic Corporation

Established 1919

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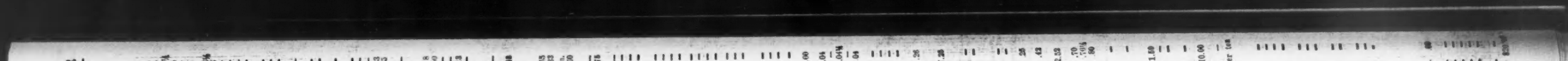

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U.S.I. CHEMICAL NEWS

July ★ A Monthly Series for Chemists and Executives of the Solvents and Chemical Consuming Industries ★ 1948

Cost of Stabilizing Lard May Be Reduced By Use of Amino Acids

Methionine Synergizes Action Of Phenolic Antioxidants

The cost of stabilizing lard and other animal fats by means of phenolic antioxidants may be reduced in the near future, according to the findings of a group of mid-western scientists. The secret is the use of methionine and other relatively inexpensive amino acids to synergize the activity of such costly antioxidants as alpha-tocopherol, hydroquinone, and nordihydroguaiaretic acid. In many cases, for example, it has been discovered that 0.01 per cent of an antioxidant together with 0.01 per cent of an amino acid synergist is as effective as 0.1 per cent of the phenolic antioxidant alone.

The investigation was undertaken to find synergists for three commonly-used phenolic antioxidants: alpha-tocopherol, hydroquinone, and nordihydroguaiaretic acid. The amino acids were selected as synergists or secondary oxidants. Many other compounds were also tested.

Methionine Is Top Synergist

Using lard as the experimental medium, the investigators were able to determine the "protective index" of each synergist. The "protective index" scale runs from 0 to 4 — the higher the index value, the greater the synergism.

With alpha-tocopherol as the primary phenolic antioxidant, the most effective synergists were found to be methionine and ascorbic acid, with indices ranging between 2.1 to 3.0. But with hydroquinone and nordihydroguaiaretic acid, methionine was discovered to be in a class by itself, showing indices of 3.1 to 4.0 with the former compound and from 2.1 to 3.0 with the latter.

Other amino acids reported to be effective, but not as effective as methionine, include threonine, leucine, norleucine, valine, phenylalanine, and cysteine. The production of DL-methionine has been increased in recent months by U.S.I. to meet the demands of the pharmaceutical and feed industries.

Mice Milk — At $10,000 A Quart — Fights Cancer

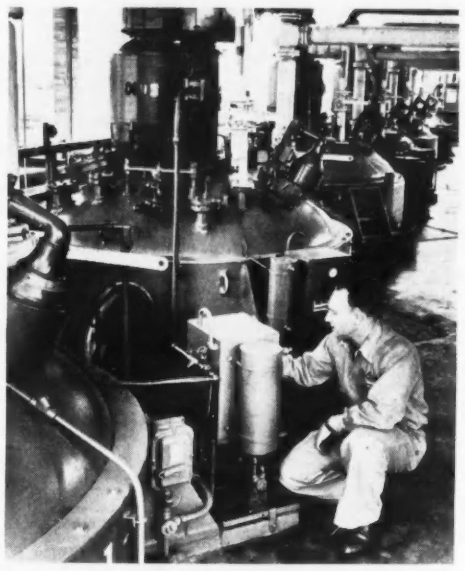
Three thousand black and white mice, housed in the Medical School of a prominent eastern university, are good for only two quarts of milk a year and it costs $20,000 for the output, according to a recent announcement. Reason for collection of mice milk is this: It has been known for years that in mice, breast cancer can be induced by injecting the milk from those mice which develop the disease spontaneously. By examining the milk from cancerous mice, the university scientists hope to isolate and identify of the cancer-producing agent.

THE AMERICAN HYDROCARBON SYNTHESIS: VII

Chemical Co-products of Hydrocarbon Synthesis Mount in Significance

New Competitive Source Welcomed by Raw Materials Users — Familiar and New Chemicals Produced From Process

It is not often that a development instigated by the needs of one industry becomes of even greater significance to a second. This, however, promises to be the case with Hydrocarbon Synthesis. Stimulated by our shrinking petroleum reserves and receiving its impetus from the petroleum industry, it nevertheless bids fair to receive even more serious attention from users of chemical raw materials. The reason is that the ratio of chemicals from Hydrocarbon Synthesis to the total U. S. production



To users of raw chemical materials, the first two American Hydrocarbon Synthesis plants will provide a new competitive source of supply.

of the same materials is larger than the corresponding ratio for liquid fuels.

Yet this fact is not apparent from casual review of the technical press or from the headlines of our newspapers. The rising prices of fuel oil and gasoline and severe shortages of the former in certain areas focus attention on new sources of petroleum. There are extended discussions of domestic requirements of oil and gasoline and the military establishment stipulates wartime needs. Congressional committees consider resources and department heads release plans for bolstering supplies. There is government sponsorship of research and development on processes for obtaining liquid fuels from new sources. Private enterprises are concerned with synthesis of liquid hydrocarbons from synthesis gas obtained by various means.

Large Proportion of Total Production

In the foreseeable future, however, liquid fuel synthesis will produce only a small fraction of the total production. The first two plants, now under construction, will supply less than a half per cent of the gasoline used in the United States. The co-product ethanol, however, will equal more than a tenth of the

MORE

New Glass Announced — Withstands 1800° F.

Better sun lamps and laboratory glassware can be made from a new type of heat-resistant glass, announced recently at a meeting of an American scientific society. The new glass can be heated to 1800 degrees F. and rapidly cooled without breaking, and sun lamps made from it do not darken and lose their potency as rapidly as lamps containing other kinds of glass, the inventor states.

Insecticide Booklet Is First Of Series

A four-page, illustrated booklet on the "Control of the Mexican Bean Beetle" with cyclonene-rotenone insecticides has just been issued by the Insecticide Division of U.S.I. The booklet is the first of a series designed to acquaint insecticide formulators, entomologists, and all other users of insecticide materials with the properties and applications of U.S.I. products in this field. Copies of the initial booklet in the series may be obtained, free of charge, by writing the Editor of *Chemical News*, U. S. Industrial Chemicals, Inc., 60 East 42nd Street, New York 17, N. Y.

New Measuring Device

A tiny electronic tube which is sensitive enough to detect the movement of the hair spring of a watch has been announced. The tube, which is proving useful in laboratory instrumentation, can be used as part of a device for measuring the relative positions of two objects in motion.

Guide To Chemical Russian

Chemists who wish to learn to read chemical Russian may find the task less formidable than they think, thanks to a new book on the subject. The text is an enlargement of a series of articles which appeared last year in a leading American scientific journal.

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July ★ # U.S.I. CHEMICAL NEWS ★ 1948

CONTINUED

Hydrocarbon Synthesis

1946 national production as will the production of normal propanol, acetic acid and propionic acid. The two plants can supply nearly ten per cent of the country's current production of acetone and methyl ethyl ketone. There will be substantial increases in the supply of normal butanol and acetaldehyde. The quantities of all of the above materials are a more significant proportion of the whole than is the gasoline output. In addition to the above materials, the supplies of propionaldehyde, butyraldehyde will be increased by substantial output from the two plants. There will be some methanol.

New Materials

Of particular interest to the chemical user are substantial quantities of several new materials which thus far have had but small commercial production. Among these are butyric and isobutyric acids, normal amyl alcohol (1-pentanol) and new solvent materials, methyl propyl ketone and methyl butyl ketone.

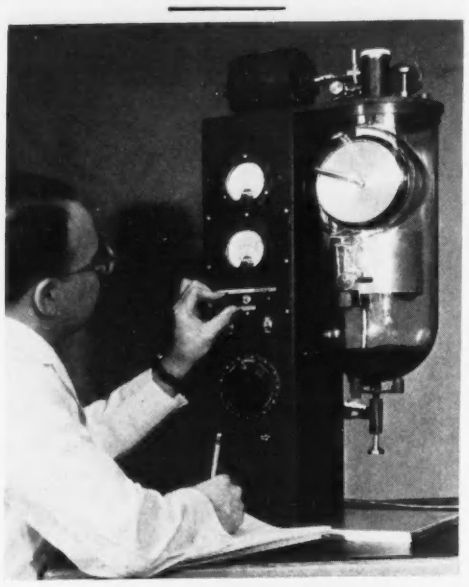
Effect on Supply

In the minds of those watching the development of fuels from synthesis, the question naturally arises as to what effect this new source will have on eventual supply. It is possible that additional synthesis plants, in spite of the tremendous capital cost required, may enter the development after opportunity is given to observe the results of operation of the first two plants. It is at present too soon to predict what effect additional plants would have on chemical availability.

In predicting the likelihood of extensive recovery and separation of the chemical products, two facts must be kept in mind: (1) The chemical separating and refining units are expensive and complicated and (2) The know-how for producing products of high purity has been developed only after years of intensive research and manufacturing experience.

The two initial plants now under construction will, however, provide a new source of chemicals, entirely competitive with those from any other known manufacturing procedures. In addition, other interesting materials will be introduced in large quantities for the first time. Both of these facts will be welcomed by raw material users. By making available these synthetic products and many of their derivatives, U.S.I. will be constructively expanding its already extensive service.

Centrifugal Molecular Still For Laboratory Use



For the first time, a unit for distilling fats, oils and waxes by molecular distillation at the laboratory bench has been made available. Said to be simple, compact, portable and inexpensive, the new model employs a centrifugal evaporator embodying the same principles as large commercial stills, so that the results obtained can be translated into terms of commercial production.

Claims Advances In Animal Nutrition Neglected

The science of animal nutrition has made available more basic knowledge on this subject within our lifetime than in all past time, according to the author of a scientific paper published recently. It is most unfortunate, the author asserts, that the knowledge we have gained with lower animals is not applied more widely in human nutrition. The paper, which reviews recent work in this field, may be obtained by writing the editor of *Chemical News*.

TECHNICAL DEVELOPMENTS

Further information regarding the manufacturers of these items may be obtained by writing U.S.I.

New-type plastic shipping bags, claimed to be particularly adapted for use by chemical companies and manufacturers of other products where lint from a shipping container could damage or contaminate the material, are said to be re-usable and to withstand rigorous handling. **(No. 338)**

To determine wet film thickness of paints, varnishes, lacquers, and related products, a new instrument has been announced which is reported to give accurate and rapid results. **(No. 339)**

A wood floor that can be poured right over uneven wood floors, or on a wood sub-floor or concrete slab, has been placed on the market. It is said to dry overnight and give the appearance of an expensive oak floor. **(No. 340)**

To prevent mildew on leather, a new fungicidal dressing has been developed which is claimed to provide complete protection. **(No. 341)**

A durable water-repellent for cotton, wool, corduroy, and synthetic fabrics is said to impart shrinkage control to cellulose fabrics. **(No. 342)**

To measure the flow properties of paints, a high-speed, wide-range instrument has been developed which is designed to measure in accordance with the principles of scientific rheology. Known as a rotational viscometer, it can be used also to measure flow properties of printing inks, plastics, adhesives, and similar products. **(No. 343)**

A new-type roofing sheet makes roofs that will last 100 years, the makers state. The sheet is said to have a low coefficient of expansion, high rigidity, and is not subject to fatigue cracking. **(No. 344)**

To write on any surface, a "diamond scriber" is now being marketed. It is said to be particularly useful in marking mold parts and tools. **(No. 345)**

A new anti-foaming agent described as insoluble in water and tasteless, is claimed to be a highly efficient inhibitor in alkaline water solutions. **(No. 346)**

A fire-resistant coating which is not an impregnating material, but which can be applied over wood, fiber board, or wall paper in exactly the same way as paint, has been announced. When this coating is subjected to flame or intense heat, it puffs up into a tough cellular blanket, according to the manufacturer. **(No. 347)**

A new-type lanolin, said to have a high cholesterol content, is claimed to possess emulsifying power 25 to 30 per cent greater than that of the average cosmetic grade of lanolin. **(No. 348)**

U.S.I. INDUSTRIAL CHEMICALS, INC.

60 EAST 42ND ST., NEW YORK 17, N. Y. U.S.I. BRANCHES IN ALL PRINCIPAL CITIES

ALCOHOLS
Amyl Alcohol
Butanol (Normal Butyl Alcohol)
Fusel Oil—Refined

Ethanol (Ethyl Alcohol)
Specially Denatured—all regular and anhydrous formulas
Completely Denatured—all regular and anhydrous formulas
Pure—190 proof, C.P. 96% Absolute
*Super Pyro Anti-freeze
*Solox proprietary Solvent

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Amyl Acetate
Butyl Acetate
Ethyl Acetate

OXALIC ESTERS
Dibutyl Oxalate
Diethyl Oxalate

PHTHALIC ESTERS
Diamyl Phthalate
Dibutyl Phthalate
Diethyl Phthalate

OTHER ESTERS
*Diatol
Diethyl Carbonate
Ethyl Chloroformate

INTERMEDIATES
Acetoacetanilide
Acetoacet-ortho-anisidide
Acetoacet-ortho-chloroanilide
Acetoacet-ortho-toluidide
Acetoacet-para-chloroanilide
Ethyl Acetoacetate
Ethyl Benzoylacetate
Ethyl Sodiumoxalacetate

ETHERS
Ethyl Ether
Ethyl Ether Absolute—A.C.S.

FEED CONCENTRATES
Riboflavin Concentrates *Vacatone 40
*Curbay B.G *Special Liquid Curbay

ACETONE
Chemically Pure

RESINS (Synthetic and Natural)
*Aroplaz—alkyds and allied materials
*Arofene—pure phenolics
*Arochem—modified types
Ester Gums—all types
Congo Gums—raw, fused & esterified
Natural Resins—all standard grades

INSECTICIDE MATERIALS
*Pyrenone Concentrates
Pyrethrum Products
Rotenone Products

INSECTIFUGE MATERIALS
*Indalone
*Dimelone
Triple-Mix Repellents

OTHER PRODUCTS
Celledrons Urethane, U.S.P.
Nitrocellulose Solutions DL-Methionine
Ethylene

Printed in U.S.A.

XUX

Queen of the meadow root bgs....lb. .12 - .18
Quercitron crystals, bbls., l.c.l.....lb. .33½- —
Extract, liquid, bbls., l.c.l.....lb. .14½- —
solid, bxs.....lb. .23 - —
Quicksilver, flasks (76 lbs.) net..flask.76.00 -78.00
Quince seed, bgs.....lb. 1.00 - 1.80
Quinidine, NF, V, cryst., cns.....oz. 1.30 - —
powd., precip., cns.....oz. 1.22 Nom.
Sulphate, USP, cns.....oz. .95 - —
Quinine, NF, cns., 100 ozs.....oz. 1.00 - —
Arsenate, cns., 100 ozs.....oz. 1.30 - —
Bisulphate, USP, cns., 100 ozs....oz. .73 - —
Dihydrobromide, bots., 50 ozs....oz. 1.00 Nom.
Dihydrochloride, USP.....oz. 1.00 - —
Ethylcarbonate, NF, cns., 100 ozs.oz. .95 Nom.
Formate, cns., 100 ozs.....oz. 1.20 Nom.
Hydrobromide, NF, cns., 50-oz cns. oz. .91 - —
Hydrochloride, USP, cns., 100 ozs.oz. .91 - —
Hypophosphite, cns., 100 ozs....oz. 1.40 - —
Phosphate, NF, cns., 100 ozs.....oz. 1.10 - —
Salicylate, NF, cns., 100 ozs.....oz. .95 - —
Sulphate, USP, cns., 100 ozs.....oz. .80½- —
Tannate, USP X, cns., 100 ozs....oz. .60 Nom.
Valerate, NF, IV, 100 ozs.....oz. 1.25 - —
Quinine-urea hydrochloride, NF, cns.oz. .97 - —
Quinolin, dms., c.l., works.....lb. .54½- .55
l.c.l., works.....lb. .55 - .55½

R

R salt, dry, bbls.....lb. .69 - .70
Red, alizarin lake, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. 1.45 - 2.25

prices ½c. per lb. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1¾c.), (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. per lb. higher, dlvd Pacific coast prices equaled with Chicago, dlvd. Denver, Pueblo, Salt Lake City, Wichita

Cadmium lithopone, deep shade, bbls., frt. alld. E. of Rockies..lb. 1.25 - —
light shade, bbls., same basis.lb. 1.10 - —
maroon, bbls., same basis.....lb. 1.35 - 1.45
medium shade, bbls., same basis. lb 1.20 - —
medium-light shade, bbls., same basis..lb. 1.15 - —
orange-red, bbls., same basis..lb. 1.05 - —
Red cadmium lithopone, all shades, in smaller pkgs. 5c. per lb. higher; all prices are 1c. per lb. higher ex whse., Los Angeles and San Francisco.
Carmine, No. 40 (see Carmine).
Crocus martis (see Red, maroon, oxide)
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works.....lb. 1.35 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N Y.. lb. .11½- 11¾
Iron oxide, synth., bbls.....lb. .11½- .11¾
75%-85% copperas oxide, bgs., l.c.l., Bethlehem, Pa.; Copley, O.; Easton, Pa.; E. St. Louis, and Trenton, N. J. lb .05¼- 09¼
Lake C toner, alizarin, bbls., works. lb. 1.05 - —
Lithol toner, bbls., works.....lb .80 - —
Lithol-rubin toner, alizarin lake, bbls., works..lb. 1.40 - —
Maroon, alizarin lake, 25%, less., works. lb. .40 - .43
toner, bbls., works.....lb. 1.35 - 1.50
Cadmium, deep, bbls., works...lb. 1.20 - —
regular, bbls., works.....lb. 1.10 - —
Iron oxide, bgs., l.c.l., works...lb. .04 - —
MNPT toner, kgs., works.....lb. 3.25 - —
Maroons in smaller pkgs., 5c. per lb. higher
Mercury oxide, tech., bbls., 10,000 lbs., works. lb 2.00 - —
smaller lots, works.....lb. 2.02 - —
Metallic, bbls., works.....lb. 02½- 02¾
Oxide (see Red, iron oxide).
Oxide, Persian gulf, bgs., works..lb. 06¾- .07
Para toner, bbls.....lb. .85 - .89
chlorinated, kgs.....lb. .95 - 1.05
concentrated, alizarin lake, kgs., works..lb. .80 - —
Phloxin toner (see Red, eosin toner).
Phosphotungsic, rhodamine Y, kgs., works..lb. 4.45 - —
Pink lake, alizarin, bbls., works..lb. .20 - .25
Purple lake, kgs.....lb. 1.35 - —
Rose lake, alizarin, bbls., works..lb. .25 - .28
Spanish oxide, grade 1, bbls., c.l., ex dock..lb. .05½- .05¾
l.c.l., ex dock.....lb. .05½- .06
ex whse., New York.....lb. .06½- —
grade 2, bbls., c.l., ex dock.....lb. .05½- .05¾
l.c.l., ex dock.....lb. .05½- .05¾
ex whse., New York.....lb. .06¼- —
Toluidin toner, alizarin lake, kgs., works..lb. 1.35 - —
Turkey, bbls., works.....lb. .14½- —
Tuscan, bbls., frt. equald.....lb. .24½- .25
Venetian, 15%, bgs., works.....lb. .0350- —
20%, bgs., works.....lb. .0360- —
25%, bgs., works.....lb. .0410- —
30%, bgs., works.....lb. .0440- —
35%, bgs., works.....lb. .0465- —
40%, bgs., works.....lb. .0490- —
Vermilion, Auer., bbls. .....lb. .22½- 48
Quicksilver, cflsk.....lb. 2.27 - —
Red precipitate, NF, powd., fib. dms.lb. 2.17 - 2.19
Red saunders, wood, grd., bbls.....lb. 35 - —
Resorcinol, tech., dms., works.....lb. 65 - —
USP, cryst., dms., works.....lb. 1.80 - —
powd., dms., works.....lb 2.00 - —
Rhatany root, bgs.....lb. 11 - .12
Rhubarb root, whole, cs.....lb. .45 - .50
powd., bbls.....lb. .50 - .55
Riboflavin, USP, bots.....kilo.125.00 - —
95%, feeding grade, bots.....kilo.118.75 - —
Rice bran concentrate, dms., Cedartown, Ga., or Emeryville, Calif.lb. .79 - —
Rochelle salt, gran., powd., bbls., 5,000 lbs..lb. 31½- —
smaller lots.....lb. .32 - —
Rose flowers, pale, bls. .....lb. .23 - .24
Rosemary flowers, bls. .....oz. 1.55 - 1.65
Leaves, French, bls.....lb. .13 Nom.
Portuguese, bls. .....lb. .08 - .08½
Spanish, bls. .....lb. .10 - .10½
Rosin, gum (see Naval Stores, Protective Coatings market).
Wood, B, dms., c.l., works....100 lbs. 3.50 - 5.00
FF, dms., c.l., works.....100 lbs. 6.00 - 6.50
G, H, I, dms., c.l., works..100 lbs. 8.50 - 8.95
K, dms., c.l., works.....100 lbs. 8.55 - 8.95
M, dms., c.l., works.....100 lbs. 8.40 - 8.95
N, dms., c.l., works.....100 lbs. 8.75 - 9.05
WG, dms., c.l., works.....100 lbs. 8.80 - 9.30
WW, dms., c.l., works.....100 lbs. 8.90 - 9.35
X, dms., c.l., works.....100 lbs. 9.40 - —
Rotenone, cryst., bbls., works.....lb.20.00 -24.00
Extract, liq., dms., works..per unit. 1.50 - —
Powder (see Cube root).
Rottenstone, bgs., c.l., mines....ton.36.00 - —
l.c.l., mines.....ton.43.00 - —
Rue herb, bls. .....lb. .40 - .45
Rutin, bots. .....gram. .23 - .29

S

Sabadilla seed, powd., bbls.....lb. .32 - .36
activated ground with lime, bbls.lb. .36 - .38
Saccharin, gran., soluble, 1,000 lbs..lb. 1.50 - —
smaller lots .....lb. 1.60 - 1.70
powd., soluble, insoluble, dms., 1,000-lb. lots..lb. 1.55 - —
smaller lots .....lb. 1.65 - 1.85
Safflower (see Saffron, Mexican).
Saffron, Mexican, bls.....lb. 1.00 - 1.10
Spanish, USP, tins.....lb.28.00 -30.00
boxes .....lb.25.00 -26.00
Safrol, dms. .....lb. .85 - 1.45
Sage, Cyprus, bls.....lb. .12 - .12½
Dalmatian, bls. .....lb. .23 - .23½
Greek, fancy, bls.....lb. .13½- .14
Spanish, bls. .....lb. .13½- .14
Syrian, bgs.....lb. .21 Nom.
Sago flour, bgs. .....lb. .09 - .09½
Salicin, bots. .....lb. No stocks
cns. .....lb. No stocks
Saligenin, dms., works.....lb.20.00 -25.00
Salol, gran., bbls., sgs. .....lb. 1.00 - —
fib. dms. .....lb. 1.02 - 1.03
Powdered salol, 10c. higher
Salt, rock, bgs., c.l.....ton.18.10 - —
l.c.l. .....ton.22.40 -23.60
Table, vacuum, common, fine, bgs., c.l., ton.19.60 -21.60
l.c.l. .....ton.21.40 -23.40
Saltcake, dom., bulk, works.....ton.25.00 -28.00
Chrome (see Chrome cake).
Saltpeter, cryst., bbls., 10 tons 100 lbs.13.15 - —
smaller lots .....100 lbs.13.40 -13.65
gran., bbls., 20 tons.....100 lbs. 8.75 - —
smaller lots .....100 lbs. 9.75 -10.25
Saltpeter, powd., bbls., 20 tons.100 lbs. 9.75 - —
smaller lots .....100 lbs.10.75 -11.25

Saltpeter in bags is 25c. per 100 lbs. less than in barrels; in kegs it is $1 more.

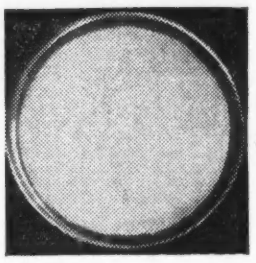
Sanguinarine nitrate, bots.....oz. 4.75 - 5.50
Santonin, cryst., powd., cns.....kilo.190.00 -200.00
Saponin, No. 1, cns. .....lb. 2.45 - —
Sarsaparilla root, dom., bls.....lb. .40 - .45
Honduras, bls. .....lb. .40 - .42
Mexican, bls. .....lb. .30 - .32
Sassafras bark, ord., bls.....lb. .30 - .31
select, bls. .....lb. .60 - .65
Savory, French, bls.....lb. .20 - .20½
Spanish, bls. .....lb. .14 - .14½
Saw palmetto berries, bgs.....lb. .24 - .23
Scammony resin, lump, cns. .....lb. 2.10 - 2.25
powd., cns. .....lb. 2.20 - 2.30
Root, bgs. .....lb. .13 - .14
Schaeffer's salt, bgs.....lb. .60 - .62
Seidlitz mixture, bols., 5,000 lbs...lb. .27¾- —
smaller lots.....lb. .28¼- —
kegs, 5,000 lbs. .....lb. .28¼- —
smaller lots .....lb. .28¾- —
Selenium, powd., cns., 10-lb. lots...lb. 2.10 - —
cs., 1,000-lb lots.....lb. 2.00 - —
Senega root, bls.....lb. 1.95 - 2.05
Senna leaf, Alex., half-leaf, bls....lb. .26 - .27
siftings, bgs. .....lb. .22 - .23
Tinnevelly, No. 1, bls.....lb. .20 - .24
No. 2, bls. .....lb. .17 - .19
No. 3, bls. .....lb. .13 - .14
Pods, bls. .....lb. .14 - .15
Serpentaria root, bls.....lb. 2.75 - 2.90
Shellac, bleached, bonedry, bgs., 1,500-lb. lots..lb. .64½- —
bbls., 1,500-lb. lots.....lb. .65 - —
kgs., 1,500-lb. lots.....lb. .67 - —
refined, bgs., 1,500-lb. lots...lb. .74½- —
bbls., 1,500-lb. lots.....lb. .75 - —
kgs., 1,500-lb. lots.....lb. .77 - —

bonedry shellac sales of less than 1,500 lbs., 1c. per lb. higher for all packages.

Lemon, No. 1, bgs. .....lb. .68 - .69
No. 2, bgs. .....lb. .67 - .68
Superfine, bgs., 10 bgs.....lb. .63 - .64
TN, bgs., 10 bgs.....lb. .61 - .62
Shellac in 1 to 9 bgs., 1c. more.
Silica amorph., dry-grd., 325 mesh, bgs., c.l., Ill. works..ton.20.00 -30.00
l.c.l., works.....ton.25.00 - —
hard-quartz, 99½%, 325 mesh, bgs., c.l., works..ton.15.00 - —
l.c.l., works.....ton.20.00 - —
140 mesh, bgs., c.l., works....ton.10.00 - —
l.c.l., works.....ton.15.00 - —
Tetrachloride, tech., dms., c.l., works..lb. .15½- —
l.c.l., works .....lb. .16¼- .27
Silver bullion, ingots, cs. .....oz. .74½- —
Cyanide, fib. dms., 2,500-oz. lots..oz. 62¼- —
1,000-oz. lots .....oz. .62½- —
500-oz. lots .....oz. .62¾- —
250-oz. lots .....oz. .63 - —
Nitrate, CP, cryst., bots., 2,500-oz. lots..oz. .48 - —
1,000-oz. lots.....oz. .49¼- —
500-oz. lots.....oz. .49½- —
250-oz. lots.....oz. .49¾- —

USP granular silver nitrate, 2c. per oz. higher.

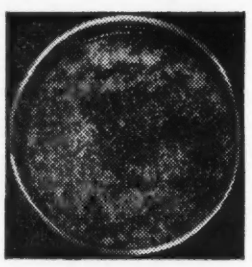
It's your decision...



←stop

or

go →



DOWICIDES make the difference!

Stop costly damage caused by bacteria and fungi—use the Dowicides!

These germicides and fungicides are produced by Dow to check the tremendous industrial losses caused by mold and bacteria in almost every major industry. They find application in the paint, paper, leather, textile, lumber, adhesives, petroleum and disinfectants industries.

The Dowicides control destructive microorganisms both effectively and economically. And practically any requirement for an industrial germicide, fungicide, or deodorant can now be met with a Dowicide made specifically for this purpose.

Where fungi and bacteria are causing you trouble, *let us know!* We welcome the opportunity to discuss their applications in your particular industry.

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DOWICIDES

germicides and fungicides

CHEMICAL COMMENTS

NEW AROMATIC SPECIALTY FOR PERFUMES, SOAP, COSMETICS

C•64 is a new Dow Aromatic Specialty. It possesses richness and warmth, freshness and sparkle—making it adaptable to both modern and oriental type perfumes. Its odor is powerful and spicy, with a slightly minty touch. A highly stable, crystalline material, C•64 blends well with citrus oils and dissolves even in dilute alcohol. It will not discolor milled soap or cosmetic preparations and is therefore a valuable ingredient in the manufacture of those products.

PROPYLENE GLYCOL USED AS SHORTENING EXTENDER

The food industry is making increasing use of low-cost Dow propylene glycol because of its unusual properties as a solvent, humectant, preservative, and wetting agent. Through the wetting action of this highly purified material it has been found possible to extend the effectiveness of shortening in producing baked goods. Propylene Glycol aids in the dispersion of the shortening throughout the batch with a consequent saving of critical shortening not otherwise possible.

AN EFFECTIVE THICKENER FOR IMPROVED DYE PRINTING

Methocel, Dow cellulose derivative, has demonstrated unusual possibilities as a dispersing, thickening, and binding agent. One of its important applications is in textile printing. As a thickener for fast color salts and diazotized bases for printing on naphthol prepared grounds, it yields prints of exceptional brightness, smoothness, and sharpness of mark with greater penetration and efficiency of dyestuff. Methocel can be used in dyes either for machine or screen printing.

Additional information about any of these products is available on request.

DOW

CHEMICALS INDISPENSABLE TO INDUSTRY AND AGRICULTURE

Silver Proteinate—Sodium Silicate

Silver proteinate, mild, USP, bots., dms., 1,000-oz. lots..oz. .45 - —
strong, bots., dms., 1,000-oz. lots. oz. .40 - —
Simarubra bark, bls. .....lb. .85 - .86
Skullcap herb, Eastern, bls. .....lb. .85 Nom.
Western, bls. .....lb. .30 - .35
Skunk cabbage root, bls. .....lb. .35 - .40
Slate flour, bgs., c.l., works.....ton.11.00 -12.00
l.c.l., ex whse.....ton.20.00 -60.00
Sloe berries, bgs. .....lb. .33 - .40
Smalt, black, ctns. .....lb. .11 - —
Blue, ctns .....lb. .16 - —
Snakeroot, Canada, bls. .....lb. .50 - .55
Soapbark, bls.....lb. .19 - .20
crushed, bls., bbls.....lb. .26 - .27
cut, foreign, bbls.....lb. .28 - .30
powd., bbls.....lb. .29 - .30
Soda ash, dense, 58%, paper bgs., c.l., works..100 lbs. 1.50 - —
l.c.l., stock points, zone 1.....
100 lbs. 2.85 - —
2 .....100 lbs. 3.00 - —
3 .....100 lbs. 3.35 - —
4 .....100 lbs. 3.95 - —
bbls., c.l., works.....100 lbs. 2.00 - —
l.c.l., stock points, zone 1.....
100 lbs. 3.35 - —
2 .....100 lbs. 3.50 - —
3 .....100 lbs. 3.85 - —
4 .....100 lbs. 4.45 - —
bulk, c.l., works.....100 lbs. 1.25 - —
light, 58%, paper bgs., c.l., works, 100-lbs. 1.40 - —
l.c.l., stock points, zone 1.....
100 lbs. 2.75 - —
2 .....100 lbs. 2.90 - —
3 .....100 lbs. 3.25 - —
4 .....100 lbs. 3.85 - —
Soda ash, light, 58%, bbls., c.l., works. 100 lbs. 1.90 - —
l.c.l., stock points, zone 1.....
100 lbs. 3.25 - —
2 .....100 lbs. 3.40 - —
3 .....100 lbs. 3.75 - —
4 .....100 lbs. 4.35 - —
bulk, c.l., works.....100 lbs. 1.15 - —

Soda ash prices f.o.b. stock points in zones indicated. Minimum quantity 500 lbs. For less than 500 lbs. prices are ex-warehouse. Sales zones are: (1) All States E. of Miss R and N. of south bound of Ky., 31°, Tex. E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn ; Mo. (except St. Louis), Neb., E of 98°, N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W of 98°, Kan., Neb., W of 98°, N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex

Caustic, flake, powd., 76%, dms., c.l., works..100 lbs. 3.45 - —
l.c.l., dlvd., zone 1.....100 lbs. 5.80 - —
zone 2.....100 lbs. 5.95 - —
zone 3.....100 lbs. 6.30 - —
zone 4.....100 lbs. 6.90 - —
liquid, 50%, sellers' tanks, works, dry basis..100 lbs. 2.40 - —
70%, sellers' tanks, works, dry basis..100 lbs. 2.50 - —
50%, rayon type, tanks, works, dry basis..100 lbs. 2.40 - 2.50
Soda caustic, solid, 76%, dms., c.l., works..100 lbs. 3.65 - —
l.c.l., dlvd. zone 1.....100 lbs. 4.40 - —
zone 2.....100 lbs. 4.55 - —
zone 3.....100 lbs. 4.90 - —
zone 4.....100 lbs. 5.60 - —

Prices f.o.b. stock points in zones indicated, minimum quantity 500 lbs.; for less than 500 lbs., prices are ex-warehouse. Soda caustic zones are same as soda ash

Sal, bgs., c.l., works.....100 lbs. 1.30 - —
Sodium acetate, anhyd., dms., works, lb. .09½- .11
NF, cryst., bbls., works.....lb. .07½- .08½
Alginate, refined, water soluble, bbls., works..lb. .70 - —
semi-refined, bbls. works.....lb. .42 - —
white, powd., dms, works.....lb. 1.50 - 1.60
Alkylbenzene-sulphate, dms., works, lb. .18 - —
Aluminate, for water treat., bgs., c.l., works..100 lbs. 7.00 - —
l.c.l., works.....100 lbs. 8.40 - —
other uses, bgs., c.l., works.100 lbs. 7.00 - —
l.c.l., works.....100 lbs. 7.50 - 8.00
Antimoniate, bbls., c.l., dlvd.....lb. .29 - —
l.c.l., dlvd. .....lb. .30 - —
Arsenate, dealers, dms., c.l., works, lb. .12 - —
l.c.l., works. .....lb. — - —
Arsenite, gray, dealers, dms., c.l., works..lb. No stocks
l.c.l., works. .....lb. — - —
solution, dms., works.....gal. .70 - 1.00
Benzoate, tech., bbls., 2 tons...lb. .39 - —
smaller lots.....lb. .40 - .41
USP, dms., 2 tons.....lb. .46 - —
smaller lots .....lb. .47 - .52
Bicarbonate, USP, gran., bgs., works..100 lbs. 2.35 - —
l.c.l., works .....100 lbs. 3.00 - —
powd., bgs., c.l., works...100 lbs. 1.95 - —
l.c.l., works .....100 lbs. 2.60 - —
Sodium bichromate, bgs., c.l., works... lb. .09½- —
l.c.l., works.....lb. .09¾- .09¾
Sodium bichromate, in bbls., ½c. higher.
Bifluoride, bbls., c.l., works, frt. equald..lb. .11½- 12¼
l.c.l., same basis.....lb. .11¾- 12¼
Bisulphate, bulk, c.l., works..100 lbs. 1.50 - —
dms., c.l., works.....100 lbs. 2.25 - —
l.c.l., works.....100 lbs. 2.65 - —
Bisulphite, powd., bbls., c.l., works, 100 lbs. 3.50 - —
l.c.l., works .....100 lbs. 4.00 - —
solut., 35°, bbls., c.l., works.100 lbs. 1.10 - —
l.c.l., works .....100 lbs. 1.50 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works, lb. .33 - .34
Cacodylate, bots., dms.....lb. 9.00 -12.00
Carbonate (see Soda ash, Soda sal, Sodium monohydrate).
Chlorate, cryst., dms., c.l., works..lb. .07¼- —
l.c.l., works .....lb. .07½- .08
pow.d., kgs., works.....lb. .08¼- —
Chloride (see Salt)
Chlorite, tech., dms., works.....lb. .75 - —
Chromate, bbls., dms., c.l., works..lb. .11½- —
l.c.l., works.....lb. .11½- .11¾
Citrate, USP VIII, bbls.....lb. .20 - —
dms .....lb. .21 - .25
USP XIII, gran., bbls.....lb. .26 - —
dms .....lb. .27 - .31
Sodium citrate, USP XIII, powd., prices ½c. higher.
Cyanide, 96-98%, dms.....lb. .15 - .15½
Diacetate, 35-35% acidity, bbls., works..lb. .10½- .11¼
anhydrous dms., works.....lb. .13 - .14½
Fluoride, white, 90%, bbls., c.l., works..lb. 09¼- —
l.c.l., works.....lb. .10 - —
95%, bbls., c.l., works.....lb. .10 - —
l.c.l., works.....lb. .10¼- —
Formate, bgs., c.l., dlvd.....100 lbs. 7.10 - —
l.c.l. .....100 lbs. 8.15 - —
Glutamate, monobasic, kgs.....lb 1.55 - 1.60
Glycerophosphate, NF, flake, bbls, lb. 1.65 - 1.80
powder, bbls. .....lb. 1.70 - 1.85
solution, 75%, cbys.....lb 1.00 - 1.10
50%, cbys. .....lb. .82 - —
Hydrosulphide (see Sodium sulphydrate).
Hydrosulphite, dms., c.l., frt. alld..lb. .18½- .19
c.l., frt. alld.....lb. .19 - .20
Hydroxide, tech. (see Soda, caustic).
USP, sticks, dms.....lb. .24 - .29
Hypophosphite, dms.....lb. .73 - —
Hyposulphite, tech., cryst., bgs., c.l., works, frt. equald.100 lbs. 2.90 - 3.00
l.c.l., same basis.....100 lbs. 3.30 - —
pea cryst., bgs., metro. area, 100 lbs. 3.30 - —
Soda, hyposulphite, crystals, in bbls., 40c. higher; pea crystals, dms., 50c. higher.
USP (see Sodium thiosulphate).
Iodide, USP, dms., jars.....lb. 2.72 - 2.83
Manodiate, dms .....lb 3.25 - 3.35
Metaborate, gran., bgs., c.l., works, ton.90.50 - —
l.c.l., works .....ton.108.00 -113.00
Sodium metaborate in bbls., $20 per ton higher
Metal, dms., works.....lb. .10½- —
Metaniobate, bgs .....lb .48 - —
Metasilicate, anhyd., bbls., c.l., works, 100 lbs 4.00 - —
gran., bgs., c.l., works.....100 lbs. 3.25 - —
l.c.l. .....100 lbs. 4.35 - 4.60
bbls., c.l., works.....100 lbs. 3.65 - —
l.c.l. .....100 lbs. 4.75 - 5.00
Molybdate, anhyd., works.....lb. .50 - —
Monohydrate, bgs., c.l., works, 200 lbs. 2.00 - —
l.c.l., works .....100 lbs. 2.45 - —
Naphthionate, bbls.....lb. .60 - —
Nitrate, crude, dms., bgs., c.l., works, ton.45.50 - —
bulk, c.l., works.....ton.42.00 - —
Imp., 100-lb. bgs., c.l., All Gulf, Pac. whse..ton.48.00 - —
bulk, c.l., same basis.....ton.41.50 - —
Nitrite, 100%, bbls., c.l., works, frt. equald..lb. .06½- —
West coast ports....100 lbs. 8.00 - 8.05
l.c.l., dlvd.....100 lbs. 8.90 -11.00
Orthosilicate, anhyd., dms., c.l., works..100 lbs. 5.25 - —
l.c.l., same basis.....100 lbs 5.55 - 7.1
hydrated, flake, bbls..c.l., works, 100 lbs. 4.25 - —
l.c.l., works .....100 lbs. 5.50 - 5.75
Oxalate, neut., bgs., works.....lb. .09 - .10
Pentachlorophenate, briquets, bgs., works, frt. equald..lb. .17 - .19
powd., bgs., c.l., same basis..lb. .16 - .16¾
l.c.l., same basis.....lb. .17 - —
kgs., l.c.l., works, frt. equald. lb. .19 - —
Perborate, USP, tech., bbls., c.l., works..lb. .17½- —
l.c.l., works .....lb. .18½- —
Peroxide, dms., c.l., dlvd. E. of Miss, lb. .16 - —
smaller lots, same basis.....lb. .19 - —
Phosphate, dibasic, anhyd., bgs., c.l., works..100 lbs. 7.80 - —
l.c.l., works .....100 lbs. 8.20 - —
cryst., bgs., c.l., works..100 lbs. 3.25 - 3.50
l.c.l., works .....100 lbs. 3.75 - 3.90
NF, dried, powd., dms., works.lb. .20 - .20½
monobasic, anhyd., bgs., c.l., works, 100 lbs. 12.45 - —
l.c.l., works.....100 lbs.12.85 - —
tribasic, anhyd., bgs., c.l., works, frt. equald..100 lbs. 9.00 - —
l.c.l., same basis.....100 lbs. 9.50 - —
cryst., bgs., c.l., works, frt. equald..100 lbs. 3.50 - —
l.c.l., same basis.....100 lbs. 3.90 - —

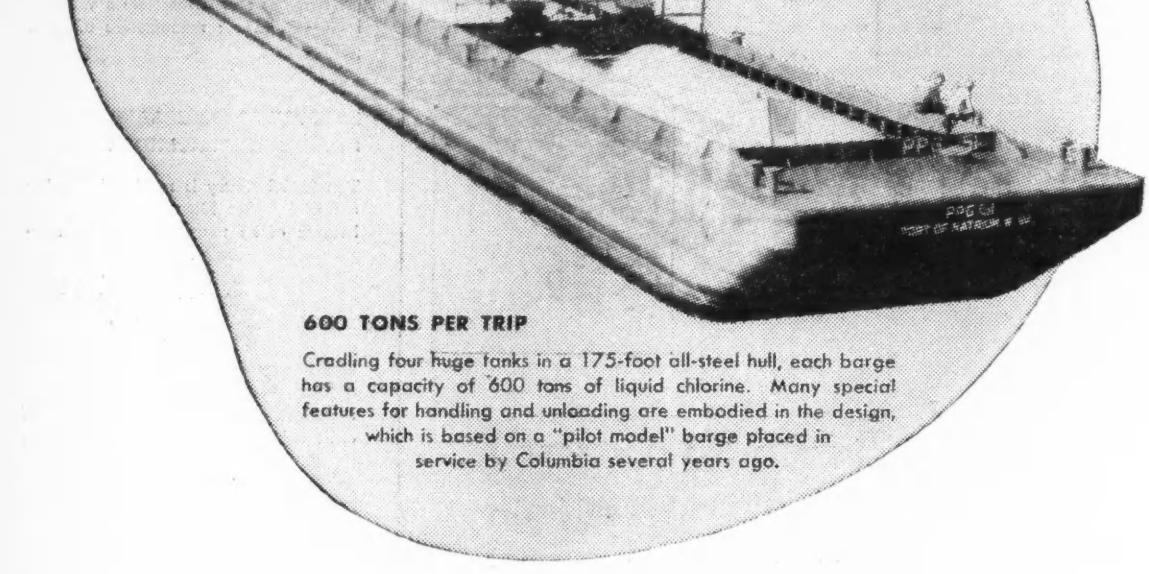
Sodium phosphates in bbls., 40c. higher than bgs.

USP (see Sodium phosphate, dibasic).
Phosphoaluminate, bgs., c.l., works, 100 lbs. 7.00 - —
l.c.l., works.....100 lbs. 7.50 - 8.00
Prussiate, yellow, bgs.....lb. .12 - —
bbls. .....lb. .12½- —
Pyrophosphate, acid, bgs., c.l., works, frt. equald..100 lbs.11.25 -13.00
l.c.l., same basis.....100 lbs.11.75 -13.50
ferric, dms., 10,000 lbs., works, lb. .22 - —
smaller lots works..... lb. .22½- —
tetrabasic, anhyd., bgs., c.l., works, frt. equald..100 lbs. 6.50 - 6.65
l.c.l. .....100 lbs. 7.00 - 7.15
Ricinoleate, tech., bbls.....lb. No stocks
Salicylate, dms.....lb. .57 - .60
Sesquicarbonate, bgs., c.l., works... 100 lbs. 1.85 - —
bbls., c.l., works.....100 lbs. 2.25 - —
l.c.l., dlvd. zone 1.....100 lbs. 3.35 - —
zone 2.....100 lbs. 3.50 - —
zone 3.....100 lbs. 3.75 - —
zone 4.....100 lbs. 4.15 - —

Sodium sesquicarbonate l.c.l. price zones are same as those for soda ash.

Sesquisilicate, bbls., c.l., works..... 100 lbs. 4.15 - —
l.c.l., dlvd. .....100 lbs. 5.40 - 5.65
Silicate, 40°, turbid., dms., c.l., works..100 lbs. 1.00 - —
l.c.l., works .....100 lbs. 1.25 - 1.35
tanks, works.....ton.16.00 -17.00
42°, turbid, dms., c.l., works..... 100 lbs. 1.80 - —
l.c.l., works.....100 lbs. 2.05 - 2.15
tanks, works.....ton.32.00 - —

Record volumes of Chlorine shipped via waterways



600 TONS PER TRIP

Cradling four huge tanks in a 175-foot all-steel hull, each barge has a capacity of 600 tons of liquid chlorine. Many special features for handling and unloading are embodied in the design, which is based on a "pilot model" barge placed in service by Columbia several years ago.

Fleets of chlorine barges—the first ever designed specifically for this service—have been transporting record quantities of chlorine from Columbia's plant at Natrium, West Virginia . . . and from the plant of its affiliate, Southern Alkali Corporation, at Lake Charles, Louisiana. Operating along the Ohio-Mississippi inland waterways and the inland waterways system of the Gulf Coast, these chlorine barges provide obvious advantages to large-volume users of chlorine in these areas. They are among the most recent examples of the progressive service rendered by Columbia-Southern, the nation's largest merchant producers of chlorine. Pittsburgh Plate Glass Company, Columbia Chemical Division, Fifth Avenue at Bellefield, Pittsburgh 13, Pennsylvania.

COLUMBIA CHEMICALS

CHICAGO NEW YORK BOSTON CINCINNATI MINNEAPOLIS CHARLOTTE ST. LOUIS CLEVELAND PITTSBURGH PHILADELPHIA SAN FRANCISCO

PAINT • GLASS • CHEMICALS • BRUSHES • PLASTICS

PITTSBURGH PLATE GLASS COMPANY

Sodium silicofluoride, bbls., c.l., works, lb. .05 - —
l.c.l., works lb. 05½- .06
Stannate dms., works, frt. alld. E. lb. .58 - —
Stearate bb. works lb. 19 - 24
Sulphate, NF VII, dried, powd., bbls, lb. .16 - 16½
tech anhyd., bgs., c.l., works 100 lbs. 2 10 - —
l.c.l., works 100 lbs 2 35 - 2 60
cryst (see Glauber's salt)
USP, cryst., gran., bbls. lb. 15 - 15½
Sulphonilate, bbls., works lb. .22 - —
Sulphide, cryst., bbls., c.l., works, 100 lbs. 3.50 - —
l.c.l., dlvd. 100 lbs. 3.90 - —
flake, bbls., c.l., works 100 lbs. 6.00 - —
l.c.l., works 100 lbs. 6.40 - —
fused, bbls., c.l., works 100 lbs. 5.75 - —
l.c.l., dlvd. 100 lbs. 6.50 - —
Sulphite, anhyd., tech., powd., bbls., c.l., frt. equald. 100 lbs. 2.50 - 2.75
l.c.l., same basis 100 lbs. 3.25 - 3.75
crystals, bgs., c.l., works 100 lbs. 3.35 - —
l.c.l., works 100 lbs. 3.75 - —
bbls., c.l., works 100 lbs. 3.40 - —
l.c.l., works 100 lbs. 3.80 - —
Powd., bbls., c.l., works 100 lbs 5.25 - —
l.c.l., works 100 lbs 5.50 - 6.00
Sulphocarbolate, USP IX, gran., bbls., dms. lb 33 - 34
powd., bbls lb 36 - 37
Sulphocyanide, CP (see Sodium thiocyanate).
Sulphoricinoleate, bbls. lb. 12 - —
Sulphydrate, flake, 70-72%, dms., c.l., lb 05 - —
liquid, 45%, tanks, works ton.95.00 - —
Thiocyanate, CP, dms. lb. .55 - 65
tech., dms., works lb. .30 - —
Titanate, ctns., c.l., works lb 10 - —
5 tons, works lb. 10½- —
2,000 lbs. and less, works lb. 10½- 13½
Tripolyphosphate, bgs., c.l., works, frt. equald. lb 07½- —
l.c.l. lb 07¾- —
Thiosulphate, tech (see Sodium hyposulphite).
USP, cryst., bbls lb 10 - 12
Tungstate, tech., bgs. lb 1 40 - 1.45
Sodium-ammonium phosphate, bbls., works, frt. equald. lb 23 - —
Sodium-carboxymethylcellulose, high vis., ctns., 2,000 lbs., works frt. alld. lb. 65 - —
smaller quantities, same basis lb 70 - —
Sodium-carboxymethyl cellulose, low and med. vis., ctns., 2,000 lbs. same basis. lb. 62 - —
smaller quantities, same basis lb 66 - —
Sodium-cinchophen, bots., dms works, lb 5.00 - 5.10
Sodium-formaldehyde sulfoxylate, dlvd., dms. lb. 22 - .26
Sodium-sulpha drugs (see Sulpha name)
Solvent naphtha, coaltar, dms., works, gal. 27 - .30
high-flash, dms., works gal. 27 - 30
Petroleum, 100° F. flash, tanks, Baytown, Tex. gal. 27 - —
150°F flash, tanks, same basis, gal. 27 - —
Sorbitol, com'l, dms., c.l., works. lb. 25½- —
l.c.l., works lb. 20 - —
crystalline, dms., works lb. 50 - —
solution, aqueous, dms., c.l., works, lb. .1855- —
ton lots, works lb. .196 - —
Soybean protein, chemically isolated, 40,000 lbs., works. lb. 26½- —
20,000 lbs., works lb. 26¾- —
smaller lots, works lb. 27 - 30½
mechanically refined, bgs., 40,000 lbs., works. lb. .061 - —
20,000 lbs., works lb. .063 - —
smaller lots, works lb. 065 - —
Spikenard root, bls lb. 43 - 45
Spikenard root, bls lb. 45 - 46
Spruce extract, liq., reg., tanks, works, lb. 01¾- —
powd., super, bgs., c.l., works lb. 05¼- —
Squaw vine, leaves, bls lb. 45 - 50
Squill, red, fortified, powd., bbls., boxs, lb. 1.60 - —
White, bls lb. 08 - 10
powd., bbls., bxs lb. 14 - 18
St. Ignatius beans, bgs lb. No stocks.
St. John's bread, edible, bls lb. 12 Nom.
Starch, corn, pearl, paper bgs., c.l. 100 lbs 7.01 - —
Chicago 100 lbs. 6.42 - —
l.c.l. 100 lbs. 7.16 - —
powd., paper bgs., c.l. 100 lbs. 7.12 - —
Chicago 100 lbs. 6.53 - —
l.c.l. 100 lbs 7.27 - —
Prices for corn starch in cotton bags, 17c. higher
Potato, dom., bgs., c.l. lb. .08 - —
l.c.l. lb. .09½- .09⅝
imported, bgs., c.l. lb. 09 - —
Rice bgs., c.l. lb. No stocks.
Sweetpotato, bgs., c.l. lb. No stocks
Wheat, bgs. lb. .0705- .0750
Stavesacre seed, bgs. lb. 60 - 63
Stearin, oleo (see Oleostearin).
Stillingia root, bls. lb. 33 - 35
Stoneroot, bls. lb. 07½- 08
Storax, USP, cs. lb. 1.50 - 1.60
Stramonium leaves, bgs. lb. 19 - 20
Seed, bgs. lb. 20 - 21
Streptomycin, hospitals gram. 2.20 - —
wholesalers gram 1.76 - —
Strontium bromide, NF, cns., dms, lb. 62 - —
Carbonate, 90%, bbls. lb. 14 - 16
98% bbls. lb. 23 - 25
Chloride, tech., bbls. lb. 22 - 24
Chromate, bgs., frt. equald. lb. 43½- 44
Iodide, jars, 25 lbs. lb. 3.20 - 3.26
Lactate, dms. lb. 1.30 - 1.35
Nitrate, bbls., c.l., works lb. 07¾- —
l.c.l., works lb. 08¼- 08¾
Oxalate, bbls., works lb. 38 - 40
Salicylate, NF, dms. lb 1.25 - 1.32
Sulphate air-floated, 90% 325 mesh, bbls., works. ton.58.00 - —
Strontium-calcium sulphide, phosphorescent, dms., works. lb. 2.50 - 2.85
Strophanthin, bots. oz.30.00 -50.00
Strophanthus seed, Kombe, bgs. lb. 2.50 Nom.
Strychnine, NF, powd., cns., 100 ozs. oz. 1.25 - —
Sulphate, USP, powd., cns., 100 ozs. oz. 1.00 - —
Styrene, monomer, tanks, works lb. .15 - —
Styrolyl acetate, bots. lb. 2.50 - 3.10
Sucrose acto-acetate, denat., bbls., l.c.l., works. lb. .55 - —
tech., bbls., l.c.l., works lb. .50 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphabenzamide, dms., works lb. 4.00 - —
Sulphadiazin, USP, dms., works lb. 9.00 - —
Sulphadiazin sodium, USP, dms., works. lb.10.50 - —
Sulphaguanidin, USP, dms., works. lb. 4.50 - 4.60
Sulphamerazin, USP, dms., works. lb. 9.00 - —
Sulphamerazin, sodium, USP, dms., works. lb.10.50 - —
Sulphanilamide, USP, powd., bots., works. lb. 1.05 - 1.10
Sulphanilamide, 30-60 mesh, 10c. higher.

Sulphapyridin, NF, powd., bots., tins, works. lb. 7.00 - 7.80
Sulphapyridin - sodium, powd., bots., dms., works. lb. 7.50 - 7.80
Sulphathiazole, USP, powd., dms., works. lb. 3.00 - 3.15
Sulphathiazole - sodium, USP, dms., works. lb. 3.00 - 3.15
Sulphonethylmethane, NF, kgs. lb. 6.75 - 6.85
Sulphonmethane, NF, kgs. lb. 5.25 - 5.35
Sulphur, crude, c.l., bulk, mines, contract. long ton.18.00 - —
vessel, f.o.b. Gulf ports, export... long ton 22.00 - —
flour, comm'l, 99½%, bgs., c.l., works. 100 lbs. 1.90 - —
l.c.l., works 100 lbs. 2.50 - 2.85
precipitated, USP bbls kgs. lb 18 - 30
refined, flour, light refined, USP, bgs., c.l., works. 100 lbs. 3.70 - —
l.c.l., works 100 lbs 4.05 - 6.10
heavy, bgs., c.l., works. 100 lbs. 3.50 - —
l.c.l. works 100 lbs. 3.85 - 5.90
flowers, USP, bgs., c.l. 100 lbs. 3.95 - —
l.c.l. works 100 lbs. 4.30 - 6.35
Refined sulphur flowers in bbls., 75c. higher.
rock, bgs., c.l., works 100 lbs 2.15 - 2.75
l.c.l., works 100 lbs. 2.75 - 3.50
roll, bgs., c.l., works 100 lbs. 3.40 - —
l.c.l., works 100 lbs. 3.75 - 5.80
rubbermakers' bgs., c.l., works, 100 lbs. 1 50 - 2 00
Chloride, 55-gal. dms., c.l., works. lb. .03¾- —
l.c.l., works lb. .04¼- —
10-gal dms., c.l., works lb. .07¼- —
l.c.l., works lb. .08¼- —
Dioxide, liquid, com'l, cyls., works, lb. .00 - —
multi-unit cars, works lb. .0635- —
tanks, works lb. .045 - 0533
refrigeration cyls. l.c.l. works, lb. .16 - —
Iodide, bots., jars lb. 3 90 - 4.11

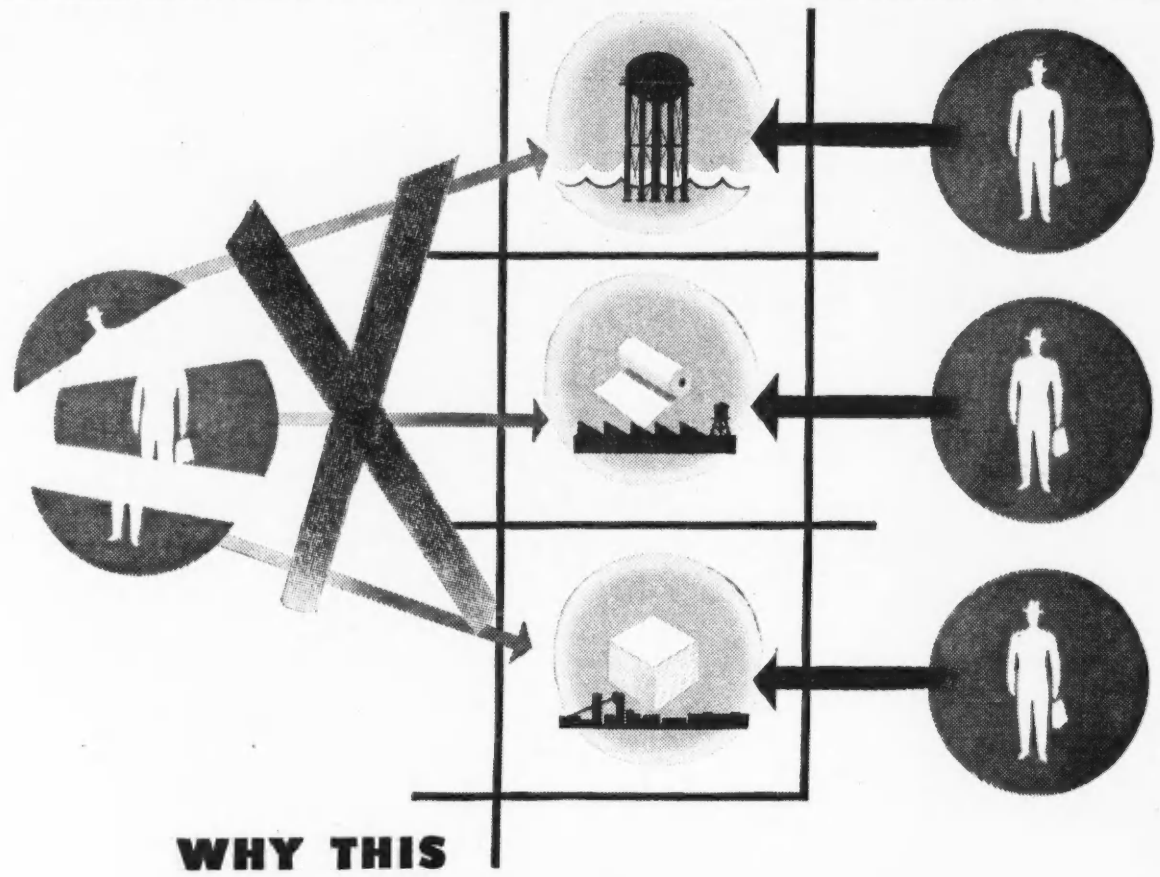
Sumac bark, 28%, grd., bgs., ex dock ton.85.00 - —
Extract, No. 1, bbls. lb. .10½- —
No. 2, bbls. lb. 09 - —
crystals, bbls. lb. 40 - —
stainless, bbls. lb 14½- —
Leaves 30%, bgs., ex dock ton.88.00 - —
Superphosphate run-of-pile, under 22% a.p.a. pulv., bulk, Baltomunit-ton. .76½- .78
Florida unit-ton. — - —
other points unit-ton. — - —
Delivery points: Ariz., Calif., Colo., Ida., Kans., Nev., N. M., Ore., Utah, Wash., 88½c. per unit-ton plus frt. charges from Anaconda, Mont., in excess of a $18.03 per ton; guaranteed 18, 19 or 20% a.p.a. ½c. per unit-ton higher.
triple, 48% or more, a.p.a., pulv., bulk, Tampa, Fla. unit-ton. .83 - —
South Carolina unit-ton. — - —
Tennessee unit-ton. — - —
Prices on 48% triple superphosphate in other states and D. C. are per unit-ton plus frt. charges from E. Tampa, Fla. Superphosphate, gran., 2c. per unit-ton higher than pulverized.
Sweet basil, bls. lb. 1.05 - 1.10

T

Talc, dom., ordinary, grd., bgs., c.l., New York works. ton.21.00 - —
l.c.l., works ton.22.50 -24.50
Calif., bgs., c.l., works ton.22.00 -30.00
Vermont, bgs., c.l., works. ton.14.00 - —
l.c.l., works ton.17.50 - —

Sodium Silicofluoride—Tara Pods

Talc, dom., fibrous, New York, off-color, ground, bgs., c.l., works, ton.24.00 - —
l.c.l. ton.26.50 -28.00
88.95-99.95%, grd., bgs., c.l., works. ton.21.00 - —
l.c.l., works ton.24.50 - —
98-99.5%, grd., bgs., c.l., works, ton.23.00 -28.00
l.c.l., works ton.27.00 -32.00
Imp., Canada, grd., bgs., c.l. ton.35.00 -45.00
Tallow, inedible, extra, loose lb. .16½- —
fancy, loose lb. .16½- —
special, loose lb. .15½- —
sulphonated, 25%, dms. lb. .08¾- 09
50% dms lb. .12½- .13
Tamarinds, bbls. lb. .10 - .12
Tankage, animal, feeding, 9-11% ammon., bulk, unit-ton. 6.85 - —
Chicago unit-ton. 7.25 - —
fertilizer, 9% ammon., 10% b.p.l., Chicago, unit-ton. No stocks
10-11% ammon., 15% b.p.l., bulk bulk, unit-ton. No stocks
Tansy leaves, bls. lb. .15 - .16
Tapioca flour, high grade, bgs. lb. 10½- 10¾
medium grades, bgs. lb. .09½- 09¾
Java, bgs. lb. No stocks.
Tar acid oil, 15-18%, ret. dms., c.l., works. gal. .55 - —
l.c.l., works gal. .56 - —
tanks, works gal. .47 - —
25-28%, dms., c.l., works gal. .66 - —
l.c.l., works gal. .69 - —
tanks, works gal. .60 - —
Tar, coal (see Coaltar).
Pine (see Pinetar).
Tara pods, bgs., c.l., ex dock U. S. ports. long ton. No prices
powd., bgs., c.l., same basis. long ton.225.00 Nom.



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Solvay Technical Service is organized on an "Industry-Wise" system . . . with Technical Service men who have spent their entire careers specializing in individual industries. The result—each man knows his industry and its problems more intimately; he can offer sound advice and practical help.

Our textile specialist is thoroughly familiar with all chemicals utilized in textile manufacturing processes. But though many of the same chemicals are used in the paper, water or other industries, our textile specialist is not called in on their problems . . . because *his* entire experience is concentrated on textile operations. The paper, water and other industries are covered by SOLVAY TECHNICAL SERVICE men who are experts in their respective fields.

When you come across a production-snagging technical situation involving alkalies or associated products in your plants . . . why not call SOLVAY Industry-Wise TECHNICAL SERVICE for help? The strictest confidence is assured. And remember—SOLVAY is backed by *sixty-seven years* of technical experience!

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Tarragon Herb—Viosterol

Tarragon herb, bgs.....lb. .40 - .45
Leaves, bgs.....lb. .85 - .90
Tartar emetic, tech., gran., or powd., bbls., kgs..lb. .44 - —
dms.....lb. 44½- .47
USP, powd., bbls., dms., kgs...lb. .49 - .52
Terpin hydrate, com'l, bbls., c.l... lb. 24½- —
l.c.l. .....lb. 25 - 25½
USP, cryst., bbls., dms.....lb. 95 - .97
powd., bbls., dms.....lb. 1.00 - 1.02
Terpineol, Alpha (see A)
com'l, dms., c.l., South.....lb. 13½- —
l.c.l., south.....lb. 14 - —
tanks, South.....lb. 13 - —
prime, dms.....lb. .67 - .82
extra, dms .....lb. .77 - .97
Terpinglycol ether, dms., c.l., works. lb. 19½- —
l.c.l., works.....lb. 20 - —
tanks, works.....lb. 19 - —
Terpinyl acetate, extra, cns., dms. lb. .65 - 1.10
prime, cns., dms.....lb. .61 - 1.00
Terra alba (see Gypsum).
Tetrachlorethane, dme. works ...lb. .08 - 08½
Tetrachloroethylene, USP, 55 gal dms., works. lb. 20 - 21½
smaller dms., works.....lb. 23½- 25
tech (see Perchloroethylene).
Tetraethyl orthosilicate, dms., works. lb. 65 - —
Tetraethylenepentamine, dms., c.l., works..lb. 51½- —
l.c.l., works.....lb. .52 - —
tanks .....lb. .50 - —
Tetraethyl pyrophosphate, dms., c.l., works..lb. .80 - —
l.c.l., works.....lb. .90 - 1.25
Tetrapotassium phosphate (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium sulphate, 99%, bots., dlvd..lb 15.00 -17.50
Theobromine, bots., kgs.....lb. 0.00 - 0.25
Thiamine hydrochloride, dms., 100 grams..kilo.160.00 - —
Thiocarbanilide, dms .....lb. .24 - —
Thiodiphenylamine (see Phenothiazine).
Thiouracil, dms., works .....lb. 5.50 - 5.60
Thiourea, tech., dms., works.....lb .40 - —
Thorium nitrate, cs., works.....lb 3.50 - —
Thyme, French, bgs.....lb. .25 - .28
futures, bgs. .....lb. .19 - .20
Spanish, bls. .....lb. .11 - .11½
Thymol, USP, kgs.....lb 3.65 - 3.75
Iodide, NF, dms.....lb 3.55 - 4.25
Timbo root (see Cube root)
Tin chloride (stannic), anhyd., dms. lb. .97 - .98
Crystals, bgs., bbls., works.....lb. .21½- —
Metal, Bolivian.....lb. 1.03 - —
Straits .....lb. 1.03 - —
Oxide, bbls. .....lb. 1.01 - 1.02
Tetrachloride, anhyd., dms., works, lb. .60 - .62
Titanium dioxide, anatase, chalk-resistant, bgs., c.l., dlvd..lb. .17½- .18
l.c.l., dlvd. .....lb. .18 - .19
plain, bgs., c.l., dlvd.....lb. .17½- .18
l.c.l., dlvd. .....lb. .18 - .19
rutile, natural, granular, bgs., c.l., works..lb. 06¾- —
l.c.l., works.....lb. 06¾- —
milled, bgs., c.l., works.....lb. .06¾- —
l.c.l., works.....lb. .06¾- —
Sconchalking, bgs., c.l., dlvd. E lb. .19½- —
l.c.l., dlvd E .....lb. .20 - 20½
Titanium hydride, cns., works.....lb. 7.00 - 8.00
Pigment, barium base, bgs., c.l., dlvd..lb. .07½- —
l.c.l., dlv'.....lb. 08 - —
Calcium base, bgs., c.l., dlvd..lb. .06¾- .07
l.c.l. dlvd. .....lb. .07½- .07½
Calcium-rutile base, bgs., c.l., dlvd. lb. 06¾- —
l.c.l., dlvd.....lb. .07½- —
Magnesium base, bgs., c.l., dlvd..lb. No prices
l.c.l., dlvd.....lb. No prices
Titanium dioxide and pigment in bbls., ¼c higher; Pac. coast, c.l., dlvd., l.c.l., ex whse., ¼c higher.
Tetrachloride, CP, 55-gal. dms....lb. .54½- .55
smaller, pkgs., works.. .....lb. .65 - 1.22
technical, 55-gal. dms., works..lb. .32 - —
smaller pkgs., works.....lb. .40 - 1.00
Tolu balsam, cns.....lb. 3.05 - 3.25
Toluene (see Toluol).
Tolidin base (see Orthotolidin)
Toluol (toluene), coaltar, 2° indust., ret. dms., works..gal. .35 - .37
tanks, E. of Omaha, frt. alld.gal. .28 - .30
W. of Minnequa, Colo., works, gal. .28 - .30
1° nitration, ret. dms., works. ..gal. .35 - .37
tanks, E. of Omaha, frt. alld.gal. .28 - .30
W. of Minnequa, Colo., works,. gal. .28 - .30

Prices on 2° toluol from petroleum, tanks, delivered (maximum freight allowances in parentheses) are:—Ark., 30c. (2¾c.); Chicago, 30c. (2¾c.); Del.-Md.-D. C., 30c. (2¾c.); Detroit, 30c. (1 8/10c.); La., 30c. (2¾c.); N. C. & E. Tenn., (2¾c.); W. Tenn., 30c. (2¾c.), and W. Va., 30c. 3½c. (3c.); N. E., 30c. (2¼c.); N. J., 30c.; N. Y., 30c.; Pa., 30c. (2¾c.); S. C., 30c. (6c.); Va., 30c. (2¾c.).

Tonga, 50% bark and vine, bls.....lb. .85 - .95
Tonka beans, Angostura, cks.....lb 1.75 - 1.80
Brazilian, cs.....lb. .85 - .90
Surinam, cs. .....lb. .85 - .90
Totaquine, USP, 100-oz. lots.....oz. .52 - —
Triacetin, dms., works.....lb .40½- —
Tributyl citrate, dms.....lb. .41 - .43
smaller pks. .....lb. .46 - .52
Phosphate, dms., l.c.l., frt. alld., E. of Rockies. lb. .66 - —
smaller pkgs.....lb. .71 - —
Tributylamine, dms., c.l., works. lb. .78 - —
l.c.l., works .....lb. .81 - —
tanks, same basis.....lb. 07½- 09¼
Trichlorobenzene, dms., c.l., works, frt. alld. or equald. lb .08½- .11
l.c.l., same basis..... lb .09½- .12
Trichloroethane, dms., c.l., works. lb. .12 - —
l.c.l., works.....lb. .13 - —
tanks, works.....lb. .11 - —
Trichloroethylene, tanks, c.l., frt. alld zone 1..lb. .10 - .10½
Zone 2.....lb. .10 - .10½
Zone 3.....lb. .10½- .11
Zone 4.....lb. .10½- .11

Trichloroethylene dm., c.l prices 1c higher. l.c.l 1½c. higher, Zones are—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Neb., N. J., N. H., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis., Omaha, K. C., Kans; (2) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont., (4), N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah Wash.

Tricresyl phosphate, coaltar dms. c.l., frt equald .lb. 37½- —
l.c.l., dlvd.....lb. .38 - —
tanks, dlvd. .....lb. 36½- —
petroleum, dms., c.l., dlvd.....lb. 38½- —
l.c.l. dlvd .....lb. .39 - —
tanks, dlvd .....lb. 37½- —
Triethanolamine dms. c.l. frt. alld E..lb. 21½- —
l.c.l., same basis.....lb 22½- —
smaller containers.....lb 25½- —
tanks, same basis.....lb 20 - —
Triethyl citrate, dms.....lb. .34 - .36
smaller pkgs. .....lb. .39 - .45
Phosphate, dms., works, c.l.....lb. .38 - —
dms., l.c.l., same basis..... lb .39 - —
tanks, same basis..... lb .37 - —
Triethylamine dms. c.l. works, basis 100% lb .34 - —
l.c.l., works, basis 100% ... lb. .36 - —
tanks, works, basis 100%..... lb. .33 - —
Triethyleneglycol, dms. c.l., frt. alld. E..lb. 20½- —
l.c.l., same basis.....lb. 21½- —
tanks, same basis.....lb. .19 - —
Triethylenetetramine, dms., c.l., works lb .51½- —
l.c.l., works.....lb .52 - —
tanks .....lb .50 - —
Trimethylamine, anhydrous, cyl., works, basis 100%..lb .20½- 30½
25%-40%, dms., c.l., works, basis 100%..lb .28 - —
l.c.l., works, basis 100%..... lb .29½- —
tanks, works, basis 100%..... lb .25 - —
Triphenyl phosphate, obls., c.l., frt. equald. lb .29 - —
l.c.l., frt. alld .....lb .30 - —
Triphenylguanidine, bbls., works. ..lb. .75 - —
Tripoli, air-floated, bgs., c.l., works.lb .0175- —
double-grd., c.l., works.....lb .016 - —
single-grd., bgs., c.l., works.....lb .015 - —
Trisodium phosphate (see Sodium phosphate, tribasic)
Tuba root (see Cube root)
Tungsten metal, powd., 99.9%, dms. works..lb 4.75 - —
Oxide, kgs., works.....lb 2.85 - —
Turmeric root, Alleppey, bls., Apr.-May lb. .27 - .27½
Haitian, futures, bls..... lb. .12 - .12½
Jamaica, futures, bgs.....lb. .15½- .16
Madras, bgs., May..... lb. .22 - .22½
Turpentine, gum (see Naval Stores Protective Coatings market)
Sulphate, ret. dms., East..... gal. .65 - —
Texas, East ..... gal. .40 - —
Wood, dest-distl., dms. incl., c.l., works, South gal. .49 - .53
l.c.l., same basis..... gal. .41 - .55
N. Y. whse..... gal. .55 - —
steam-dist., dms incl., c.l., works. gal. .58 - —
l.c.l., ex whse, NYC..... gal. .63 - .75
tanks, works..... gal. .55 - .59

U

Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium oxide, black, bgs.....lb. 2.55 - —
yellow, bgs .....lb. 1.65 - —
Urea, dom., 46% N, bgs., c.l., works, lb. .04½- —
l.c.l., works.....lb. .04¾- —
fertilizer compound, 42% N, bulk, c.l., 30 tons, frt alld. Kan., Neb., N. Dak., Okla., S. Dak., Tex., and east..ton 89.00 - —
40 tons, frt. alld. Colo., Mont., Wyo., and west..ton 98.00 - —
prill, bgs., c.l., 30 tons, frt. alld. Kan., Neb., N. Dak., Okla., S. Dakota, Tex., and east..ton 93.00 - —
40 tons, frt. alld. Colo., Mont., Wyo. and west..ton 102.00 - —
Urea-ammonia liquor, A and B, N basis, Belle, W. Va.....ton 100.00 - —
C and D, same basis.....ton 98.50 - —
Uva ursi leaves, bls.....lb. .12 - .13

V

Valerian root, Belgian, NF, bls..lb. .35 - .37
Indian, bls.....lb. .30 - .32
Valonia beards, bgs., ex dock...ton 81.00 -85.00
Cups, bgs., ex dock.....ton 57.00 -58.00
Extract, powd., bgs., ex dock, duty extra..lb. .11 - 11½
Vanadium pentoxide, CP, bgs., cns., works..lb. 7.00 - —
tech., dms., works.....lb. 1.20 - —
Vanilla beans, Bourbon, tins.....lb. 7.50 - 8.00
Mexican, cuts, tins.....lb. 5.00 - 6.00
whole, tins.....lb. 6.85 - 6.85
Tahiti, tins.....lb. 4.00 - 4.50
Vanillin, ex eugenol, tins, 25 lbs....lb. 4.50 - —
smaller lots .....lb. 4.55 - 4.65
ex guaiacol, tins, 25 lbs.....lb. 3.00 - —
smaller lots.....lb. 3.05 - 3.15
ex lignin, tins, 25-lb. lots.....lb. 3.00 - —
smaller lots, tins.....lb. 3.05 - 3.15
Vinyl acetate, 55-gal. dms., works. .lb. .16½- .17½
5-gal cns., works.....lb. .20 - —
tanks, works.....lb. .15 - —
Trichloride (see Trichloroethane)
Vinylpyridin, ret, dms., works.... lb 1.50 - —
Viosterol, bots., 100 billion USP units mill units .04 - —
1 billion USP units... mill units. .05 - —
100 million USP units..mill units. .07 - —

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THE JULY CHEMICAL OF THE MONTH

TRIBUTYL PHOSPHATE

SPECIFICATIONS:

SPECIFIC GRAVITY: 0.973 to 0.983 at 20°C./20°C.
ACIDITY: Not more than 0.05%, calculated as phosphoric acid.
WATER: No turbidity when one volume is mixed with 19 volumes of 60° Bé. gasoline at 20°C.
COLOR: Water-white.

PROPERTIES:

MOLECULAR WEIGHT: 266.32.
ODOR: None.
REFRACTIVE INDEX: 1.4226 at 20°C.
BOILING POINT: 177°C. at 27 mm. of mercury.
LATENT HEAT OF VAPORIZATION: 55.1 calories per gram at 289° C.
DIELECTRIC CONSTANT: 7.973 at 30°C.
MELTING POINT: Below −80°C.
FLASH POINT: 146°C. (294.8°F.)
SAYBOLT VISCOSITY: 38.6 seconds at 85°F.
WEIGHT PER U. S. GALLON: 8.13 pounds at 68°F.

USES

An EFFECTIVE DIELECTRIC in capacitors and condensers!
Excellent PIGMENT-GRINDING assistant!
Improves adhesion of inks to metals and plastics!
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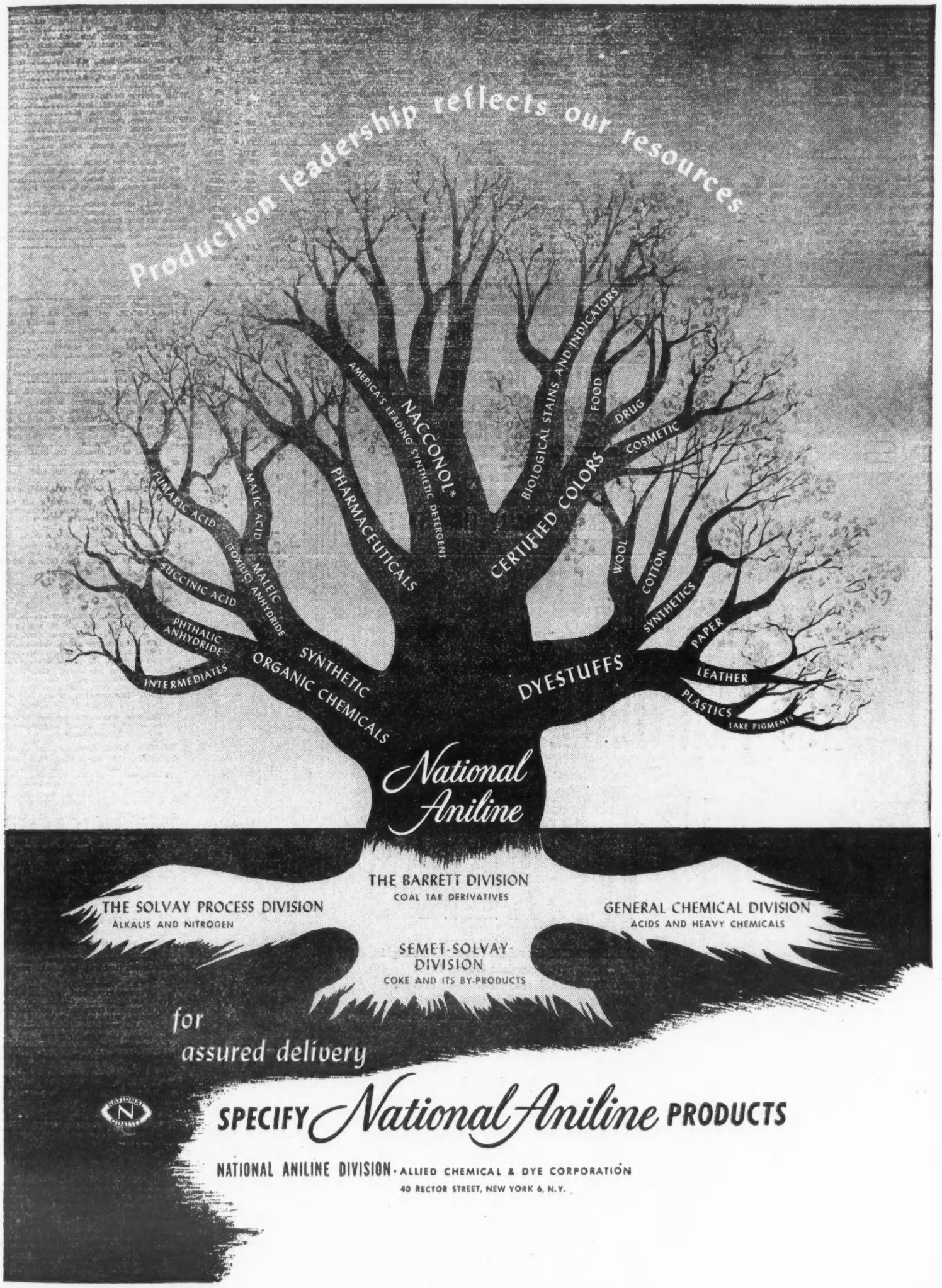
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Vitamin A—Zinc Chloride

Vitamin A (see Oils, codliver, fishliver).
A concentrate, dms., works.... mill. units. .36 • .40
B_1 (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice bran and Yeast).
B_6 (see Pyridoxin).
C (see Acid, ascorbic).
D (see Oils, codliver and fishliver, Calciferol, and Viosterol).
D_2 (See Calciferol).
E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin).
P-F (see Acid, nicotin, and Nicotinamide).
H (see Biotin).
Violet, methyl, toner (see M).
V.M.P. naphtha (see Petroleum naphtha).

W

Wahoo root bark, bls.....lb. 2.20 • 2.30
Tree bark, bls.....lb. .55 • .75
Wattle bark, fair average, or E. Afr., bgs., ex dock..ton $3.00 -85.00
merchantable, bgs., ex dock..ton 80.00 -81.00
extract, liquid, 35% tannin, bbls., works..lb. .08½- —
tanks, works.....lo. .08 • —
solid, E. Afr., 61% tannin, ex dock, duty extra..lb. .09¾- —
S. Afr., 62% tannin, ex dock, duty extra..lb. .09¼- —

Wax, amorphous (see Wax, micro crystalline).
Bayberry, bgs.....lb. .52 • .55
Bees, bleached, USP, white, bricks, cs..lb. .70 • .73
slabs, bgs. .....lb. .69 • .71
crude, African, bgs.....lb. .58 • .59
Western hemisphere, bgs.....lb. .58 • .59
refined, yellow, bricks, cs.....lb. .61 • .63
slabs, bgs. .....lb. .60 • .62
Candelilla, crude, bgs.....lb. .62 • .63
refined, bgs. .....lb. .65 • .66
Powdered candelilla, 20 mesh, 5c. per lb. extra, 80 mesh, 5½c.; 100-200 mesh, 6c.
Carnauba, chalky, No. 3, bgs., ton lots..lb. .69 Nom.
North Country, No. 2, ton lots..lb. .75 Nom.
No. 3, bgs., ton lots.....lb. .70 Nom.
refined, bgs., ton lots.....lb. .75 Nom.
yellow, No. 1, bgs., ton lots....lb. 1.10 Nom.
No. 2 .....lb. 1.08 Nom.
Powdered carnauba price differentials same as powdered candelilla.
Ceresin, dom., 132°-136° m.p., bgs. lb. .16 • .16½
138°-140° m.p., bgs.....lb. .18 • .18½
158°-162° m.p., bgs.....lb. .22 • .23
Japan, bgs.....lb. No stocks
Microcrystalline, 170°-175° m.p., ASTM, amber, cns., 30 tons yearly contract, group 3 works..lb. .14¾- —
smaller lots, same basis....lb. .15 • .16
Wax, microcrystalline, black, cns., 30 tons, same basis..lb. .13¼- —
smaller lots, same basis....lb. .13½- .14½
white, cns., 30 tons, same basis, lb. .25¾- —
smaller lots, same basis....lb. .26 • .27
190°-195° m.p., ASTM, amber, cns., 30 tons, same basis..lb. .21¼- —
smaller lots, same basis....lb. .21½- .22½
190°-195° m.p., ASTM, black, cns., 30 tons, same basis..lb. .19¾- —
smaller cns., same basis....lb. .20 • .21
white, cns., 30 tons, same basis, lb. .34¼- —
smaller lots, same basis....lb. .34½- .35½
Montan, crude, bgs.....lb. .45 • .47
Ouricury, crude, bgs., ton lots....lb. .66 • .67
refined, bgs., ton lots.....lb. .70 • .71
Ozokerite, fabricated, black, 189-190 m.p., bgs..lb. .36 • .38
182-183 m.p., bgs.....lb. .31 • .33
171-172 m.p., bgs.....lb. .27 • .29
white, 178-183 m.p., bgs.....lb. .33½- .34½
170-172 m.p., bgs.....lb. .28¾- .29¾
yellow, 180-190 m.p., bgs.....lb. .48 • .50
182-183 m.p., bgs.....lb. .43 • .45
178-183 m.p., bgs.....lb. .26½- .27½
170-172 m.p., bgs.....lb. .23¾- .39
Spermaceti, blocks, cs.....lb. .41 • .42
cake, cs. .....lb. .42 • .43
White lead (see Lead, white).
White precipitate, powd., dms., 50 lbs. lb. 2.00 • —
White pine bark, rossed, bls.....lb. .16 • .20

Whiting, limestone, dry-grd., 325 mesh, bgs., 40 tons, St. Louis, works ton 10.00 • —
40 tons, N. Y. whse.....ton 18.00 • —
smaller lots, St. Louis, works..ton 12.50 • —
wet-grd., air-floated, 99% 325 mesh, bgs., c.l.....ton 14.50 -27.50
99% 200 mesh, bgs., c.l.....ton. No prices
98% 200 mesh, bgs., c.l.....ton. No prices
water-floated, extra gilders, bgs., c.l..ton 14.50 • —
gilders, bgs., c.l.....ton. No prices
putty grade, bgs., c.l.....ton 13.00 • —
surface treated, bgs., c.l. Ohio works..ton 30.00 • —
Paris white, bgs., c.l.....ton 25.00 -31.00
l.c.l. .....ton 25.00 -29.00
Precipitated, bgs., c.l.....ton 18.00 -20.00
l.c.l. .....ton 22.00 -25.00
Wild cherry bark, thick, bls.....lb. .06 • .07
thin, natural, bgs.....lb. .17 • .18
rossed, green, bls.....lb. .24 • .26
Wild indigo root, bls.....lb. .30 • .31
Witch hazel leaves, bls.....lb. .14 • .15
Witherite (see Barium carbonate, natural).
Woodflour, 40 mesh, bulk, c.l., works, East..ton 32.00 • —
l.c.l., same basis.....ton 40.00 • —
60 mesh, bulk, c.l., same basis..ton 37.00 • —
l.c.l., same basis.....ton 45.00 • —
80-100 mesh, bulk, c.l., same basis.. ton 40.00 -45.00
l.c.l., same basis.....ton 50.00 -55.00
Woodflour in bgs. extra, returnable.
Woolfat (see Lanolin)
Wormseed, American, bgs. .....lb. .15 • .16
Levant, bgs. .....lb. 4.15 • 4.25
Wormwood, bls.....lb. .40 • .45

X

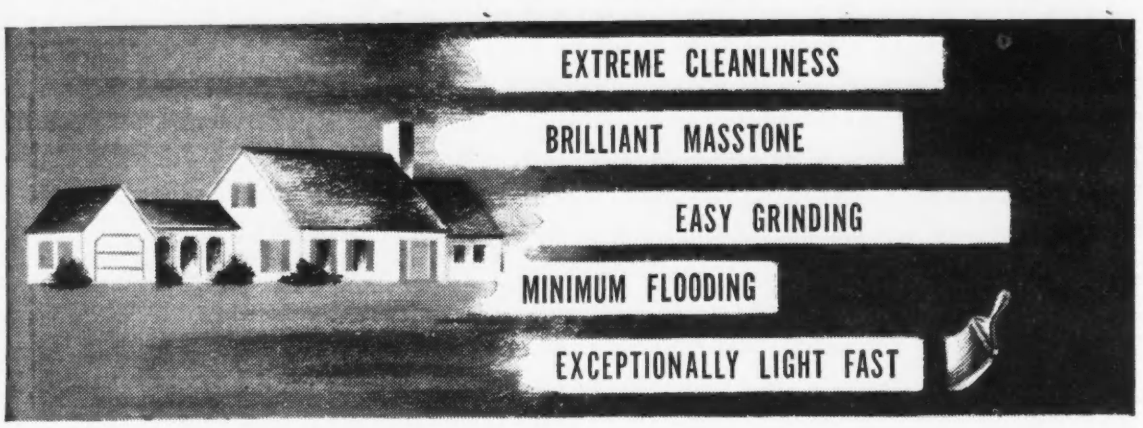
Xanthorrhiza root, bls.....lb. .28 • .30
Xylene (see Xylol).
Xylenol, 5°-7°, ret. dms., c.l., works, frt. equald..lb. .21¼- —
l.c.l., same basis.....lb. .22¼- —
tanks, same basis.....lb. .21 • —
45°, dms., l.c.l., frt. equald.....lb. .24 • —
fractions, ret. dms., c.l., same basis, gal. 1.66 • —
l.c.l., same basis.....gal. 1.69 • —
tanks, same basis.....gal. 1.60 • —
Xylidins, mixed, dms.....lb. .42½- —
Xylol (xylene), coaltar, indust., ret. dms., works..gal. .27 • .30
tanks, E. of Omaha, frt. alld.gal. .28 • .30
W. of Minnequa, Colo., works, gal. .28 • .30
10°, ret. dms., works.....gal. .36 • .38
tanks, E. of Omaha, frt. alld..gal. .31 • .33
6°, ret. dms., works.....gal. .41 • .43
tanks, E. of Omaha, frt. alld. gal. .38 • .40
8°, ret. dms., works.....gal. .45 • .47
tanks, E. of Omaha, frt. alld..gal. .40 • .42
Prices on 3 to 10-degree xylol from petroleum, tanks, delivered (maximum freight allowances in parentheses) are:—Ark., 30c. (3¾c.); Chicago, 30c. (2¾c.); Del.-Md.-D. C., 30c. (2¾c.); Detroit, 30c. (1 8/10c.); La., 30c. (3¾c.); N. C. & E. Tenn., 30c. (6c.); N. E., 30c. (2¾c.); N. J., 30c.; N. Y., 30c.; Pa., 30c. (2¾c.); S. C., 30c. (6c.); Va., 30c. (3¾c.); W. Tenn., 30c. (3¾c.), and W. Va., 30c. (2¾c.).

Y

Yara yara, cryst., bots., cns.....lb. 2.25 • —
Yeast, brewer's dry, 50 B units, per gram, dms..lb. .35 • —
90 B units, per gram, dms....lb. .45 • —
200 B units, per gram, dms....lb. .50 • —
300 B units, per gram, dms....lb. .60 • —
Yellow, barium chromate, CP, bgs., l.c.l., divd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul..lb. .32 • —
Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below.
Benzidin, bbls., divd.....lb. 1.00 • —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies..lb. 2.40 • —
Lithopone, all shades, bbls., frt. alld. E. of Rockies..lb. .55 • —
Cadmium yellows, Los Angeles and San Francisco, ex whse. 1c. per lb. higher.
Chrome, CP, bbls., divd. N. Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts..lb. .29½- —
Divd. Ala., Fla., Ga., La., (Shreveport, 1½c. higher; Miss., N. C., S. C., Tenn., Dallas, Tex., 1¼c. higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher divd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Hansa, bbls., same basis as chrome..lb. 1.60 • —
Primrose, bbls., same basis.....lb. 1.30 • —
Iron oxide, natural, bgs., c.l., works, lb. .01½- .05
l.c.l., works.....lb. .01¾- .05½
French type, bgs., c.l.....lb. .04½- —
l.c.l. .....lb. .04¾- —
Peruvian type, bgs., c.l.....lb. .0185- .021
synth., bgs., c.l., works.....lb. .09 • —
l.c.l., works.....lb. .09½- —
Mercury oxide, bbls., 1,000 lbs.....lb. 1.93 • —
smaller lots.....lb. 1.95 • —
Ocher, American, golden, bgs., works, lb. .01½- .05
Zinc, bbls., same basis as chrome..lb. .21 • —
Yellow dock root, bls.....lb. .25 • .27
Yellow xanthorrhiza (see Xanthorrhiza).
Yerba santa leaves, lbs.....lb. .35 • .38
Yohimbine hydrochloride, vls.....oz. 3.25 • 4.00

Z

Zein, bgs., 1,000 lbs., works.....lb. .25 • —
smaller lots works.....lb. .30 • —
Zinc acetate, tech., bbls., dms.....lb. .20 • —
NF, dms. .....lb. .39 • .40
Arsenite, bgs., c.l., frt. alld. E. of Rockies..lb. No stocks
l.c.l., same basis. .....lb. No stocks
Carbonate, tech., rubber makers', bbls., works..lb. .10¾- .11¾
USP, precip., powd., bgs.....lb. .35 • —
dms. .....lb. .40 • —
kgs. .....lb. .37 • —
Chloride, tech., fused, dms., c.l., works, 100 lbs. 6.25 • —
l.c.l., works.....100 lbs. 6.65 • —
gran., bbls., c.l., works..100 lbs. 7.00 • —
l.c.l., works .....100 lbs. 7.40 • —
solution, 50%, dms., c.l., works..lb. .0305- —
l.c.l., works.....lb. .0425- —
tanks, works .....lb. .0360- —
USP, gran., dms.....lb. .30 • .31
jars .....lb. .35 • .36



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No. 3030 C.P. Ferndale Green Extra Dark

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Zinc chromate (see Yellow, zinc).			
Citrate, t-c.... works	lb.	.55	- .36
Diethyldithiocarbamate, dms., works	lb.	1.15	- —
Dust, bbls., c.l., dlvd	lb.	.1485	- —
l.c.l., ship't point, frt. alld	lb.	.1485	- .1560
Fluoride, bbls., works	lb.	.18	- .19
Hexanoate, re dms., works	lb.	.16	- —
Iodide, NF, jars	lb.	4.05	- —
Laurate, bbls	lb.	.47	- .48
Linoleate, s-bbl, 9½%, bbls	lb.	.51½	- —
Metal slabs, E. St. Louis	lb.	.12	- —
Naphthenate, liquid, 8% Zn, dms., dlvd.	lb.	.21½	- —
Oleate, bbls	lb.	.42½	- —
Oxide, pigment, dom., acicular, 6gs., c.l., ship't point, frt. alld	lb.	.11	- —
l.c.l., works	lb.	.11½	- —
American process, com'l lead-free, bgs., c.l., ship't point, frt. alld.	lb.	.11	- —
l.c.l., works	lb.	.11½	- —
leaded, 5% bgs., c.l., ship't point, frt. alld.	lb.	.11	- —
l.c.l., works	lb.	.11½	- —
35% bgs., c.l., ship't point, frt. alld.	lb.	.12½	- —
l.c.l., works	lb.	.12½	- —
50% bgs., c.l., ship't point, frt. alld.	lb.	.13½	- —
l.c.l., works	lb.	.13½	- —
French process, com'l, lead-free, bgs., c.l., ship't point, frt alld.	lb.	.13½	- —
l.c.l., works	lb.	.13½	- —
green seal, bgs., c.l., ship't point, frt. alld.	lb.	.12½	- —
l.c.l., works	lb.	.13	- —
red seal, bgs., c.l., ship't point, frt. alld.	lb.	.12½	- —
l.c.l., works	lb.	.12½	- —
white seal, bgs., c.l., ship't point, frt. alld.	lb.	.13½	- —
l.c.l., works	lb.	.13½	- —
USP, cins., c.l., ship't point, frt. alld.	lb.	.14½	- —
l.c.l. same basis	lb.	.14½	- —

Zinc oxide Pac coast prices ½c. higher; bbls., prices ½c. higher than bgs

Resinate, fused, 9% Zn, powd., solution, 50% dms., c.l., works	lb.	.0365	- —
Silicofluoride, bbls., works	lb.	.11	- —
Stearate, cins., 2,000 lbs	lb.	.48	- —
smaller lots	lb.	.49	- —
Sulphide, cryst., 22% Zn, bgs., c.l., works, frt. alld.	100 lbs.	4.65	- —
l.c.l. same basis	100 lbs.	5.05	- —
flake, 25% Zn., bgs., c.l., works	100 lbs.	5.15	- —
l.c.l., works	100 lbs.	5.55	- —
paste, 50% Zn., bgs., c.l., delvd., same basis	100 lbs.	7.50	- —
l.c.l. same basis	100 lbs.	8.00	- —
Zinc sulphate or bbls., 4c higher			
Sulphide, pure, bgs. c.l., dlvd	lb.	.11½	- —
l.c.l., works	lb.	.11½	- —
Barium pigment, bgs., c.l., dlvd.	lb.	.08	- —
l.c.l., works	lb.	.08½	- —
Calcium pigment, bgs., c.l., dlvd	lb.	.08	- —
l.c.l., works	lb.	.08½	- —
Luminescent pigment, frt. alld.	lb.	1.00	- 3.00
Magnesium pigment, bgs., c.l., dlvd	lb.	.08	- —
l.c.l., dlvd.	lb.	.08½	- —

Zinc sulphide and pigment, Pac. coast prices ½c. higher; bbl. prices ½c. higher than bgs.

Sulphoxylate, NF, gran., bbls., dms.	lb.	.28	- .30
powd., bbls.	lb.	.31	- .32
Yellow (see Yellow, zinc).			
Zinc-cadmium sulphide, fluorescent, cns., frt. alld.	lb.	2.00	- 2.80
Zinc-formaldehyde sulphoxalate, base, dms., works, frt. alld.	lb.	.17	- —
normal, dms., works, frt. alld.	lb.	.35	- —
Zinc-iron oxide pigment, bgs., c.l. dlvd.	lb.	.08½	- —
Pac. coast	lb.	.09¼	- —
l.c.l., dlvd. E. of Rockies	lb.	.09	- —
Pac. coast	lb.	.09¾	- —
Zircon (see zirconium silicate).			
Zirconium acetate, solution, bbls., works	lb.	.25½	- —
basic carbonate, solution, bbls., works	lb.	.30½	- —
Hydride, cns., works	lb.	7.00	- —
Oxide, 85%, 99%, grd., bbls. or bgs., any quantity, works	lb.	.25	- —
95½-99%, white, grd., bbls. or bgs., works	lb.	1.10	- —
lump, electric-fused, bgs., c.l., works	lb.	.44	- —
5 tons, works	lb.	.44½	- —
2,000 lbs and less, works	lb.	.45	- .48
milled, electric-fused, bgs., c.l., works	lb.	.59	- —
5 tons, works	lb.	.58½	- —
2,000 lbs. and less, works	lb.	.60	- .6
Oxychloride, cryst., cins., 5 tons, works	lb.	.20½	- —
Silicate, granular, bgs., c.l., works	lb.	.02¾	- —
5 tons, works	lb.	.01	- —
2,000 lbs. and less, works	lb.	.04¼	- .04¾
milled, bgs., c.l., works	lb.	.04¾	- —
5 tons, works	lb.	.05¼	- —
2,000 lbs., works	lb.	.05¾	- .06¾
refined, bgs., c.l., works	lb.	.11	- —
5 tons, works	lb.	.11½	- —
2,000 lbs. and less, works	lb.	.12	- .16
Sulphate, basic, cake, cins., c.l., works	lb.	.37½	- —
5 tons, works	lb.	.38	- —
2,000 lbs and less, works	lb.	.38½	- .39

Synthetic Resins

The customary monthly listing of prices for synthetic resins and other branded paint materials was printed in the July 5 issue of OPD.

Trade Briefs

Chemicals and chemical products imported into Ecuador during the first ten months of 1947 totaled 5,355 metric tons, according to official customs statistics.

Sulphuric acid production in Poland totaled 38,793 tons in the third quarter of 1947, compared with 35,306 tons in the preceding quarter.

Copper sulphate, ammonium salts, caustic soda, sulphur, calcium chloride, paints and varnishes are among the chemical products expected to be exported from Poland during 1948.

Gordon Hendry, formerly associated with the United States Rubber Company, has become affiliated with the Henry J. Kaiser Company as special adviser and assistant to Henry J. Kaiser jr.

Heyden Appoints Stern Western Representative

Heyden Chemical Corporation has appointed A. George Stern western sales representative. In this position Mr. Stern will have charge of distribution and sales of all Heyden products in the Rocky Mountain region and the Pacific Coast states.

Prior to joining the Heyden organization, Mr. Stern was associated with the Westvaco Chemical Corporation, the United States Bureau of Mines, the A. H. Maas Laboratories, and the Barrett Division, Allied Chemical & Dye Corporation. His headquarters are at 420 Market street, San Francisco 11, Calif.

Chemical Salesmen Get Administrative Assistant

The executive committee of the Salesmen's Association of the American Chemical Industry, New York, has approved the retention of Paul B. Slawter jr. as administrative assistant. In announcing the action, James G. Park, of the Enjay Company, president of the association, pointed out that the group has grown from its original membership of ninety-six to 537 members at present.

Ansul Appoints Rinelli Customer Relations Head

Ansul Chemical Company, Marinette, Wis., has appointed William R. Rinelli director of its new customer relations department. The new department will have the responsibility of correlating the company's advertising, publicity, sales promotion and marketing. Mr. Rinelli, who has been with the company for thirteen years, was manager of its development division before being named to his new post.

Bouillette Rejoins Givaudan

Givaudan-Delawanna, Inc., essential oils and aromatic chemicals, New York, has assigned Pierre Bouillette to work in sales promotion of its specialties and associated products and to act in a technical sales service capacity. Mr. Bouillette had been formerly associated with the Givaudan organization, but has spent the past several years in the perfume and cosmetic industries in France and Brazil.

Chemical Workers Weekly Earnings Increased in Apr.

Weekly earnings of factory workers in chemical and related fields showed a light increase in April, as compared with March. A breakdown of the weekly earnings for the chemical and allied industries follows:—

	Weekly		
	April, 1948	March, 1948	Feb., 1948
Chemical and allied products	$54.54	$54.14	$54.13
Ammunition	48.87	49.04	48.19
Chemicals	60.97	60.84	60.82
Cottonseed oil	37.50	37.95	36.59
Drugs, medicines, insecticides	48.16	48.44	48.42
Explosives, safety fuses	56.47	58.24	59.20
Fertilizers	36.49	36.25	34.96
Paints and varnishes	55.54	55.71	55.73
Petroleum refining	68.02	67.77	67.64
Rayon, allied products	51.29	50.68	50.33
Soaps	64.29	62.83	64.54

Soda ash exports from Kenya, Africa, during the first nine months of 1947 totaled 61,774 long tons, valued at £338,257, compared with 58,300 tons, valued at £316,497, in the corresponding period of 1946.

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Volume 154 July 12, 1948 Number 2

Stop Diplomatic Dawdling

It is very difficult for those who know the ability of "Yankees" to sell anything anywhere to understand why the United States is being outdone by Russia in the "battle of Berlin" to sell politico-economic ideologies to the German people. They cannot determine whether the United States does not know what is going on, or does not know what to do about it. The promptness and efficacy with which this country went into the big job of flying food and other necessary supplies into blockaded Berlin indicate that the failure in the field of propaganda must be appraised on some new criterion. The only thing that stands clear is that diplomatic bungling did not stop with Munich; that appeasement is still mistaken for conciliation; that, once again, when commercial concepts and considerations—the "dollar diplomacy" of a generation ago—are applied to political problems, a definite, permanent solution cannot be arrived at. He who sells out to you today will sell out from you tomorrow if the bid is high enough.

There should be no difficulty in selling a perhaps somewhat socialized variety of democracy to the German people. But, the selling must not be of the radio-commercial type. It is basic in all areas of political ideology that conditions speak plainer than claims, and that promises are more impressive than performances which flop. The flying of food into Berlin carries conviction of ability. Permitting the Russians to depress the value of the Western currency is just as convincing in the opposite direction. There may be some sort of night-school economics behind the currency shifting; but the situation demands practical politics of a wholly different school.

It is time that a spade be called a spade in the handling of affairs in all Germany, and all spades with broken blades or handles should be thrown out. The crux of those affairs is not whether Germany should be restored or "Reddened." Neither extreme is desirable; nor is it necessary. Germany was whipped, for good reasons; Russia had but a minor part in that achievement. The answer is plain. Germany must stay put (in a minor status), and Russia must stay out. There is only one way in which that can be assured—Washington must so decide, so declare, and so demand. And there can be no sidestepping of that responsibility with impunity.

Housing Is a Big Need

Of the many enactments in which the recent session of Congress could take no pride, none was more of a straddle, by-pass, and dodge than the bill that got by as a housing measure. The credit—or blame—for that measure belongs to the numerical, not the partisan, majority of the Congress. It has no effectiveness—which may have been the objective of its sponsors. It displaced a fairly good bill. Perhaps it lays an expedient election calmness on the opponents of governmental meddling in the perquisites of private interests, whatever their inadequacy. One thing is certain: housing is going to be as big an issue in politics as it is in general economics for many months. The outcome nobody can foretell—but many are going to guess and prognosticate.

Organizations of real estate boards are preparing to fight against public housing in all its aspects. Because the housing problem is the biggest—inflation may be a bit bigger—that faces the people of the United States, that sort of a negative attitude is not desirable, and there is more than slim reason to expect that it will not be wise. Private housing interests should work, not fight, against the inroads of public housing. Their work should be the clear job of providing housing, so adequately done that government could find no excuse to step in.

In housing, as in every other field where government gets into business, the door through which it enters may be governmentally opened, but the space into which it moves certainly was not properly occupied. The extent to which governmental encroachments push private interests out of occupied areas is small indeed in comparison with that of the vacant areas of which private interests apparently had not been aware or which it had disregarded. Of course, government, going in, keeps private interests out. The idea works equally well the other way round. The business, or the man, that is doing a satisfactory job is not often displaced under any manifestation of sound public sentiment. The public wants housing.

Ability Not Size Counts

Some say that the small business amendment to the national draft act will be forgotten until there is an actual emergency necessitating the mobilization of all the resources of the country for national defense. Others are not so sure that the vociferous adherents of the small-comes-first school of national commercial economy will allow that one of their pet provisions to be a dead letter. Between the two are many who don't know what it is all about and more who don't care. Those do not include the defense staff heads who have the job of figuring out how to supply a war.

The economics behind the congressional requirement that small business must get a fair share of the providing of defense materials and the ECA statement that small business would be given an increasing share in its operating is far from simple. It is equally far from logical. Seemingly its basic philosophy is that everybody should serve the country in its time of need—whatever be the cost of his services or the value of them. The government will do the paying—what matters it what it gets for its money? There must be profits taxes to pay for a war, and there must be profits to pay the taxes!

The profit motive appears slowly but steadily to be pushing any philosophy of service far into the background of consideration. Experience has clearly taught that small business cannot equip a war. It has its place in implementing the national defense; but, in almost all instances, it can serve best in a subordinate capacity.

Conferences of the munitions board and business for defense planning probably will start next month. One of their major objectives is the determination of the ability of business to meet the specified needs of the several arms of the defense forces, to learn who can produce what—and how much of it in what time. Must small business be given consideration which will make the data obtained in those conferences absolutely worthless? Will it again be the unfortunate experience that an opportunistic small business will bid in a job of which it knows nothing and then hunt all over for somebody to do it and for the materials required in its doing? The draft-law amendment says that such a small business must be given the steel it needs—who is to stand the necesitated cut is not stated—but steel is not the only material needed for munitions. The author of the amendment says that it does not imply regimentation, allocation, and other assurances of supplies; but he can always back out of that position—it will not be his job to get the stuff.

Washington Talks It Over

—*Continued from page 5*

ors with the United States, and religious organizations in the Philippine Islands.

But anyone with expectations of getting an early settlement of his claims may as well revise his expectations. Here's the hitch in the program:—While Congress meant well, it didn't provide any money to set up the commission and get the work started, and since people aren't in the habit of working for free, it will be next January at the earliest before the commission can even be set up to function.

Pay-Boost Problems

Congress in its dying hours attempted to help government employees beat the rising cost of living by giving everyone in the government, except those in certain supervisory positions, a flat raise in salary of $330 a year. But, what its action has done to the budget layouts for the various departments is something no one has yet figured out.

In its generosity to the nearly 2,000,000 voters that will benefit from the pay-raise, Congress, failed to provide additional funds for the increased paycheck. This means that the raise will have to come out of the budgets of each of the departments and agencies, and this can put quite a dent in the supply of funds that were scheduled for various projects. Take the Food and Drug Administration for example. With its 1,000 employees, an unscheduled expenditure of $330,000 means that some project is going to be cut drastically if not dropped entirely. The only other way out is to continue on as if nothing has happened and then appeal to Congress for a deficiency appropriation next January. That's the course that many of the departments undoubtedly will follow.

One other peculiar aspect of the pay-raise is the fact that some of the supervisory officials—agency heads and bureau heads—will be getting less than their employees. The ceiling for the upper-drawer bureaucrats remains at $10,000, but their general counsel, for example, can draw down $10,330 a year.

Vocational Rehabilitation Pays

July 6 was the fifth anniversary of legislation that expanded the Federal-State program of vocational rehabilitation for civilians, and the record made under the new law well merits the praise that is being accorded it. The new system provided under the law made possible the rehabilitation into gainful employment of more disabled men and women in five years than was possible in twenty-three years under the old law.

And one of the resulting facts that should not be overlooked is that Uncle Sam gets more back in the form of tax payments from the beneficiaries of the law than he pays out—in fact he gets back ten times as much. Each rehabilitant will repay $10 in Federal income taxes for every $1 the Federal government spends on his rehabilitation, and Uncle Sam pays about 70 percent of the cost. In four years, the first 166,000 rehabilitants paid more than $50,000,000 in Federal income taxes.

Michael J. Shortley, director of the Office of Vocational Rehabilitation, points out that this represents a truly remarkable gain; since about 75 percent of the rehabilitants were unemployed when services were started and almost one-third of them had never worked. Those who held jobs usually were in part-time or substandard employment. Consequently, they had contributed little to the nation's economy and usually they were dependent upon friends, relatives, or public charity.

German Industrial Data Scarce

Lack of adequate information from the military government in Bizonal Germany on developments in German industry is beginning to raise the blood pressure of officials in some of the government departments who have use for this information in tracing the course of world industrial events.

There is a lot of information coming out of Germany, except from that part under Russian control, but most of it is political. It is of no use for the economists interested in industry production, but communications to the governor to that effect seem to be ignored. General information to the effect that the industry level has reached this or that percentage of the goal isn't enough. What they would like to know is what this, that, and the other plant is doing. Whether they are making the same products they made before the war. What particular troubles they are encountering. What are their prospects of reaching the production goals.

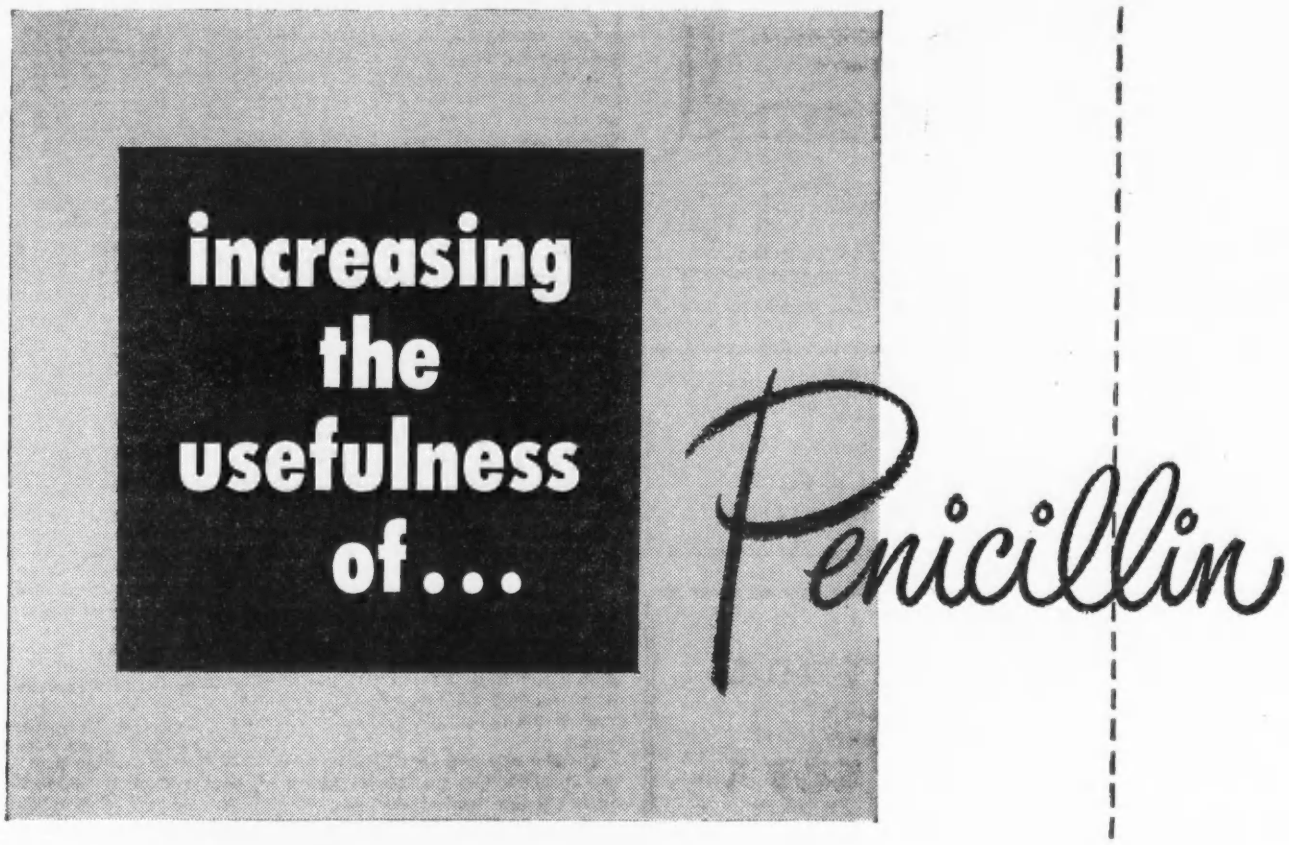
There is some talk of sending a mission over there to dig out these details and establish some understanding by the military on the information desired. Conferences are going on with the State department and the army on this now.

Farmers' Prospects Good

Even allowing for some slackening of business, as well as a reduction in foreign demand, the outlook for American farm products is relatively good for the next few years, says a summary section of the report which the Bureau of Agricultural Economics prepared at the request of the house committee on agriculture. Actual amounts of food moving abroad will depend in part upon our own foreign-aid policies, but at the same time, American farmers are in much better financial position to absorb shocks as may develop now than they were following World War I.

Several factors indicate a less sharp readjustment than that following the other war. Stocks of our staple agricultural commodities are relatively low, and a reduction in acreage of some of the grain crops within the next few years would be in line with good farming practice. Meanwhile, there has already been a considerable reduction in cattle and hog numbers so that forced liquidation of livestock is not in prospect.

All these factors indicate that farmers are in a relatively good position to work out such adjustments as are likely to be called for in the next few years. However, prices paid by farmers for goods and services are currently running about double the average for the five pre-war years, 1935-39.



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Heavy Chemicals

Market price trend revealed another advance in the chemical index number to 213.7 last week. This figure compared with 211.4 in the preceding week, 208.1 a month ago and 199.8 for the corresponding week in 1947. The acid index number was advanced to 122.1, against 121.2 in the previous week, 119.9 a month ago and 119.3 for the same week a year ago. The revisions were the result of higher prices for fused sodium sulphide and advances all along the line in lactic acid. Other advances registered were in muriatic and sulphuric acid in carboys. Nickel salts, including carbonate, chloride, formate and sulphate were all priced higher. The tank-car price of muriatic acid 20 degrees was a shade lower and so were prices for sodium sulphide crystals.

General demand showed signs of irregularity with buyers giving more attention to current requirements than to future wants. Shipments have started from a large alkali producing plant in Ohio that was strikebound for several weeks. On the other hand a large producing plant in Michigan that made a number of miscellaneous chemicals, including caustic soda, has closed under a labor dispute. It was stated that a strike at a large muriate of potash plant at Carlsbad, New Mexico, has caused some difficulty in the production of potash chemicals. Output of nickel sulphate has not matched demand and some producers have found it necessary to allocate this chemical. Soda ash appeared to be making headway toward a more balanced condition. Caustic soda was definitely short with possibilities of becoming tighter. Chlorine leaned toward the tight side, particularly in this area.

Copper sulphate remained in heavy demand, with the powdered grades commanding the most attention. British producers recently won from American makers in securing a sizable export order in copper sulphate for export to South America. Production of zinc sulphate has remained on even beam with demand. Buying interest in potassium chlorate unexpectedly increased during the past week. Sodium nitrite is definitely short at present. It was stated that the use of this chemical in the manufacture of welding rods is increasing.

Paper production based on a percentage of six-day capacity was 91.1 percent for the week ending July 3, according to the American Pulp and Paper Association. This compares with 99.8 in the preceding week and 62.7 for the corresponding week in 1947.

Production figures appearing below unless otherwise designated are from the Chemical Division of the Department of Commerce.

Acetic Anhydride — April production amounted to 60,102,859 pounds and was made from ketone, acetylene, ethylene and from acetic acid by the vapor phase process. March production was the highest for the first five months at 64,849,357 pounds.

Ammonia Liquor—May production amounted to 4,286,313 pounds, according to the Bureau of Mines. April output was 3,438,258 pounds and in May, 1947, total production registred 4,456,978 pounds. Output for the first five months of this year was 20,072,753 pounds compared with 21,616,190 pounds for the same period in 1947. Sales in May were 3,159,543 pounds, against 3,234,641 pounds in the preceding month and 4,091,102 pounds in May last year. Total sales for five months ending May 30 were 18,211,524 pounds, compared with 19,806,309 pounds for the corresponding time in 1947. Stocks on May 31 were 1,286,801 pounds, against 1,842,061 pounds on April 30 and 1,708,158 pounds at the close of May in 1947.

Arsenic—Supply situation is described as tight, although stocks are not as short as previously expected. It is stated that competitive materials have cut into the use of arsenic for agriculture and unless the bug infestation increases in the cotton growing areas, the insecticide requirements may be covered without difficulty. There was no change in the contract price. The latest import statistics are for March and show that 1,956,000 pounds came in from Mexico, 889,000 pounds from Sweden and 308,000 pounds from Russia. The total amounted to 3,153,000 pounds, which was high for any month in over a year. Imports for the first quarter were 7,587,000 pounds, an increase of 180,000 pounds over the same period a year ago. Metallic arsenic was offered for prompt shipment at 55c. per pound ex-dock New York.

Carbon Disulphide—April production declined from the preceding month. The totals were 30,358,266 pounds in April and 33,374,258 pounds in March, the latter being the high level for the first five months of 1948.

Carbon Tetrachloride—Market supply meeting most requirements promptly. Price position firm at late advance. April production 18,146,603 pounds, compared with 17,327,714 pounds in the preceding month. Highest monthly level for first five months 18,638,275 pounds established in January.

Chlorine—Supply situation rather spotty and in this section tight for both tank-cars and cylinders. Demand is described as steady and ran somewhat above normal during the recent hot weather. There is no surplus of chlorine in cylinders but the demand for water purification appears to be covered. Increased production is beginning to reach the market and distribution will likely increase before the month is over. Most of the textile mills in New England are said to have closed down for a period of two weeks.

Copper Sulphate—Demand has remained strong for agricultural use as a result of a blight occasioned by unusually wet weather in this and surrounding states. The inquiry has been centered mostly for the powdered grades of regular and basic. In one quarter it was stated that stocks of monohydrate were temporarily exhausted. Producers, however, believe they can meet the season's requirements. It is expected the peak movement will be reached during the latter part of the month and that in August demand will be leveled off. There has been no easement in the call for industrial use which is fully maintained at the wartime level. Export inquiry has broadened with actual sales mostly to Latin America. An order for 1,000 tons for export to South America was lost to British producers who were able to compete successfully against American manufacturers.

Nickel Carbonate—Priced higher at 44c. per pound for the plating grade and at 45c. for hydrogenated. Both prices are on a delivered basis in barrels. Market in balance.

Nickel Chloride—Advanced 1½c. per pound to 23c. in barrels delivered. Stocks fair and meeting requirements.

Nickel Formate—Producers' views are higher at 42½c. per pound in barrels delivered.

Nickel Sulphate—Higher prices have been made effective. Carlots are priced at 16c. per pound and smaller lots at 16½c. per pound in bags delivered. Higher producing costs are responsible for the upward revision of all nickel salts. Maintenance of steady demand for plating use has absorbed production of nickel sulphate and in some instances has run above output sufficiently to occasion the allocation of stocks. The present supply situation is said to be tighter than that noted in either copper or zinc sulphates with consuming inquiry leaning toward expansion.

Potash, Caustic—Market conditions did

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Lactic acid, edible, 50 percent, 2c. per lb.
80 percent, 8c. per lb.
plastic, 70 percent, 2c. per lb.
80 percent, 032c. per lb.
technical, 22 percent, $1.40 per 100 lbs.
44 percent, $1.10 per 100 lbs.
Muriatic acid, c.l., 18 degrees, in carboys, 15c. per 100 lbs.
20 degrees, in carboys, 5c. per 100 lbs., c.l.
22 degrees, in carboys, 5c. per 100 lbs., c.l.
Sulphuric acid, c.l., 60 degrees, in carboys, 15c. per 100 lbs.
66 degrees, in carboys, 15c. per 100 lbs.
Nickel carbonate, 3c. per lb.
chloride, 1½c. per lb.
sulphate, 1c. per lb.
Sodium sulphide, flakes, $1.50 per 100 lbs.
fused, $1.75 per 100 lbs.

Prices Reduced

Muriatic acid, 20 degrees, tankcars, $1 per ton.
Sodium sulphide, crystals, 25c. per 100 lbs.

Comparative Price Indexes

(100=August 1, 1941)

General Chemicals

Last week.	Prev. week.	Last month.	Last year.
213.7	211.4	208.1	199.8

Acids

Last week.	Prev. week.	Last month.	Last year.
122.1	121.2	119.9	119.3

(*For Current Prices see Page 9*)

not change materially last week although it was intimated in some supply sources that the continued strike at a large muriate producing plant is causing concern to producers who derive their basic material from this source. At present, the situation in caustic potash is relatively tight with liquid in better shape than solid, flaked and other dry forms.

Potassium Carbonate—Stocks somewhat tighter than caustic potash otherwise the market situation is about the same. Industrial demand is steady with consumers experiencing more difficulty in securing the dry forms than the liquid.

Potassium Chlorate—After a temporary lull in demand over the turn of the month, inquiry from the match industry showed some improvement last week. Producers have sold output for most of August but can still consider business for late next month or September. Potassium perchlorate, domestic material, is still sold well ahead and the market has not eased from its former tight condition.

Soda Ash—Although shortages were reported by some suppliers, the favorable trend toward a more normal situation has been resumed. It was stated that shipments are beginning to leave the Ohio producing plant that was strikebound for so many weeks. Industrial demand, while sustained at a high level in most instances, has lost its urgency and there are some producers who are about on even beam with contract schedules.

Soda, Caustic—Supply position definitely tight with prospects of becoming tighter by the shutting down of a producing plant in Michigan. While shipments are beginning from an Ohio producing plant recently closed by labor difficulties, the favorable effect may be neutralized by the Michigan shutdown. Liquid temporarily is in better shape than any of the dry forms.

Sodium Chlorate—No easement in buying conditions could be noted last week. Production is heavily under contract for the next two months both for industrial and weed-killing requirements. Eastern producers have continued to name September-October as the nearest shipment available.

Sodium Sulphide—Crystals, in barrels, carlots are priced lower at $3.50 per 100 pounds works. The l.c.l. price is $3.90. Flakes are higher at $6 per 100 pounds works and at $6.40 for l.c.l. Fused is priced at $5.75 per 100 pounds and at $6.50 for l.c.l. works. Supply situation has shown improvement but still relatively tight.

Zinc Sulphate—Current production is running about flush with demand. The recent advance in prices has not checked the buying movement and producers' inventories have been kept at a relatively low level. In one supply quarter, it was stated that prices are still attractive and that no complaints have been voiced in reference to the late price revision.

Acids

Acetic — Production of synthetic amounted to 31,285,949 pounds in April, compared with a revised total of 32,439,136 pounds in March. The amount of recovered acid in April was 137,955,446 pounds, against 142,867,484 pounds in the preceding month. Output of natural was 1,958,270 pounds in April and was made from direct process from wood and from acetic acid distilled from acetate of lime. Production of natural in March was 2,165,385 pounds. There was no apparent easement in the supply of glacial last week. Demand is running high and in excess of current production.

Lactic—Higher prices have been made effective for the different grades of this acid. The edible 50 percent grade is now priced at 18c. per pound for 20 barrels or more and at 18½c. to 19c. for less. The 80 percent edible grade is quoted at .332c. per pound in five barrel lots. The plastic 50 percent grade is priced at 19¾c. per pound for 20 barrel lots and the 80 percent at .3495c. per pound. Technical 22 percent is held at $5.80 per 100 pounds in carlots works and at $6.20 for less. The 44 percent grade is priced at $10.95 for 100 pounds carlots works and $11.35 for less.

Muriatic—While competitive influences have caused a shading down to $19 per ton for 20-degree acid, there was an advance of $2 to $24 per ton in the 22-degree test. The 18-degree was higher in carboys at $1.65 per 100 pounds in carlots and at $2.05 for less. The 20-degree grade was priced at $1.90 in carboys, carlots and at $2.30 in less and the 22-degree test at $2.40 in carlots and at $2.80 in less. All prices f.o.b. the works.

Oxalic — Recently advanced contract

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prices had no apparent influence in slowing down demand for this acid. Production is being diverted to regular consuming channels with demand far enough ahead of output to maintain a definitely tight supply condition.

Sulphuric—Carboys in carlots were advanced 15c. for 100 pounds for both 60 and 66-degree acid. There was no change in the tankcar quotations. It was stated that the carboy situation has continued firm and tight. Tankcar shipments were available for prompt and there was no significant change in the market position since the turn of the month.

Non-Ferrous Metals

Aluminum—Production of primary aluminum and shipments of sheet, plate and strip were maintained on a normal basis in May but are expected to be well below average in June because of the recent floods in the Pacific Northwest, it was announced by the Aluminum Association. A large producing plant has been forced to cease operation because of the floods, it was stated, and company officials estimate that this will curtail the plants primary aluminum production by at least 40 percent. In May, member concerns of the Association, who account for all the primary production of aluminum in the United States and approximately 97 percent of the total shipments of sheet, plate and strip, produced 110,900,429 pounds of primary aluminum and shipped 100,466,323 pounds of sheet, plate, and strip. A comparison with April records discloses that primary production for May was up 4,347,156 pounds, while shipments of sheet, plate and strip decreased 4,934,546 pounds.

Cadmium—No improvement in the supply situation can be noted in this metal. Available stocks are limited and the market position is tight. The price is $1.75 per pound delivered for ingots or sticks in cases.

Copper—Stocks have continued tight with the market position definitely firm and prices unchanged. Producers opened books for August late in the week and considerable business is about to be placed. It is apparent that no significant slump in buying orders will take place regardless of the vacation period. According to trade reports, producers will voluntarily contribute to the government stockpile without direct allocation.

Lead—Market conditions have continued tight with no easement in the supply situation in sight at the present time. Buying interest remained active with the availability of stocks regulating actual sales. No price changes were announced.

Quicksilver—Though the market lacked price developments last week, it had its interest for consumers in that arrivals from European points involved a very substantial quantity of metal. The total arrival was 3,200 flasks that breaks down as follows, according to origin:—Leghorn, 500 flasks; Kobe, 500 flasks; Rotterdam, 1,200 flasks; and Santander, 1,000 flasks.

San Francisco, July 8—Most of the Northern California quicksilver producers have shut down. Very little metal is available. Market interest is very good, with producers quoting metal between $79 and $81 per flask, f.o.b. this city.

Silver—Price position has remained unchanged. The official closing figure in New York was 74⅝c. per ounce for silver bullion.

Silver Bullion Price Range

	Per ounce	
	New York	London
High	Jan. 2, 1948—74⅝c.	Jan. 2, 1948—45d.
Low	Jan. 2, 1948—74⅝c.	Jan. 2, 1948—45d.

Tin—According to press advices from Malaya, the Federation of Malaya govern-

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Antimony Conservation Regulations Tightened

An amendment to conservation order M-112 to require exporters of antimony, under certain conditions, to obtain written authorization from the Office of Domestic Commerce before accepting delivery of antimony, was announced by ODC last Wednesday. The change consists of the addition of the following second paragraph to section (d) of the order:—

"Exports of antimony to any country other than Canada are subject to any export license requirements of the Office of International Trade.

"In addition, under paragraph (b), an exporter is also required to have written authorization from ODC before he may accept delivery of antimony for export (unless the quantity is 224 pounds or less). However, ODC may waive this requirement for any licensed export upon the basis of information obtained by it from OIT regarding the export shipment. In the case of such a waiver, ODC will notify the licensee in writing. Such action will not waive the reporting requirements of paragraph (h) of this order."

ment has removed a 40-year old special duty on tin ore for shipment to smelters outside the British Empire. The trade is inclined to believe that an agreement has been reached on the amount of ore America may receive from Malaya. It was stated that removal of the special export duty was in accordance with international trade agreements signed at Geneva in 1947.

Zinc—Firm at 12c. per pound East St. Louis and 12.65c. New York for prime western. There seems to be a feeling in some trade quarters that the market may be advanced, others are not optimistic. Manufacturers of zinc pigments, however, are guaranteed prices for only one month ahead.

Total production of slab zinc in June was placed at 68,372 tons by the American Zinc Institute, compared with a revised total of 73,885 tons in May and a high of 74,322 tons in March. Domestic shipments were 61,138 tons, against a revised total of 67,291 tons in the preceding month. Export and drawback showed 8,023 tons and shipments for government account amounted to 184 tons, making a combined total of 69,345 tons, against 72,848 tons in May. Stocks on June 30 were 42,280 tons, compared with 44,253 tons on May 31 and 55,423 tons at the beginning of the year. Unfilled orders at the close of June amounted to 69,345 tons. Daily average production for June was 2,279 tons, against 2,383 tons in May and a yearly daily average of 2,323 tons in 1947.

Chemical Equipment Sales Company Formed in N.Y.

The Chemical Pump & Equipment Corporation has been formed in New York to represent manufacturers specializing in chemical processing equipment. From headquarters at 75 West street, the new organization will cover western Connecticut and New York State east of Rochester.

At present the corporation is representing the Milton Roy Company, manufacturer of controlled volume chemical and high pressure pumps, automatic chemical feed systems and boiler water chemical treating systems, of Philadelphia. It is also offering chemical engineering consulting services and is negotiating representation with additional makers of chemical and allied processing equipment.

Officials of the new concern are:—president, Robert T. Sheen; vice-president, John W. Welker; secretary, Paul C. Flucke, and treasurer, John J. Smith. Sales engineers are A. W. Lubbers and Ted J. Zeller, and Robert Cohen is office manager.

Trade Briefs

Chemicals and drugs imported into Uruguay during 1947 were valued at $2,703,000, compared with $1,642,000 in the preceding year.

Calar Chemical Company has been incorporated in Los Angeles County, Calif., by Richard A. and Virginia R. Munnecke, of San Marino, Calif., and Carl B. Lien, of Chicago.

Hooker Electrochemical Making Benzotrifluoride

Hooker Electrochemical Company, Niagara Falls, N. Y., has commenced pilot plant production of benzotrifluoride, which it claims is of potential interest as an intermediate in the preparation of dyestuffs and other chemicals. The product is described as a water white aromatic liquid which is completely miscible with most common solvents, has excellent thermal stability and good dielectric properties.

The company has published "Technical Data Sheet Number 350," which describes the product in detail. Copies of the sheet and samples of the material may be obtained upon inquiry on business letterhead to the Hooker Electrochemical Company, Niagara Falls, N. Y.

Lead Refinery to Be Built

Morris P. Kirk, Inc., Los Angeles, a subsidiary of the National Lead Company, has purchased a nine-acre tract of land near Portland, Ore., where a refinery to produce battery alloys and pig from lead scrap is planned.

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Glyco Products Names DeLea Traffic Manager

Glyco Products Company, Brooklyn, N. Y., has appointed Ralph C. DeLea traffic manager for its plants in Brooklyn and in Natrium, W. Va. Mr. DeLea was formerly rail transportation officer with the transportation corps of the Army in the European theater of operations assigned to assembling, marshalling and concentrating airborne units and expediting materials and personnel from port areas to railheads.

Sharples Chemicals Holds Annual Business Forum

Plans for future research, development and sales were discussed at the recent annual business forum of Sharples Chemicals, Inc., held at the Skytop Club, Skytop, Pa. P. T. Sharples, president and chairman of the board of the firm, delivered the principal address to the assembled sales and production executives.

Diamond Alkali Treasurer

Arthur W. Crossley has been elected treasurer of the Diamond Alkali Company, Cleveland, Ohio. Mr. Crossley, who succeeds William H. Evans, was formerly assistant general manager of the Potomac Electric Power Company.

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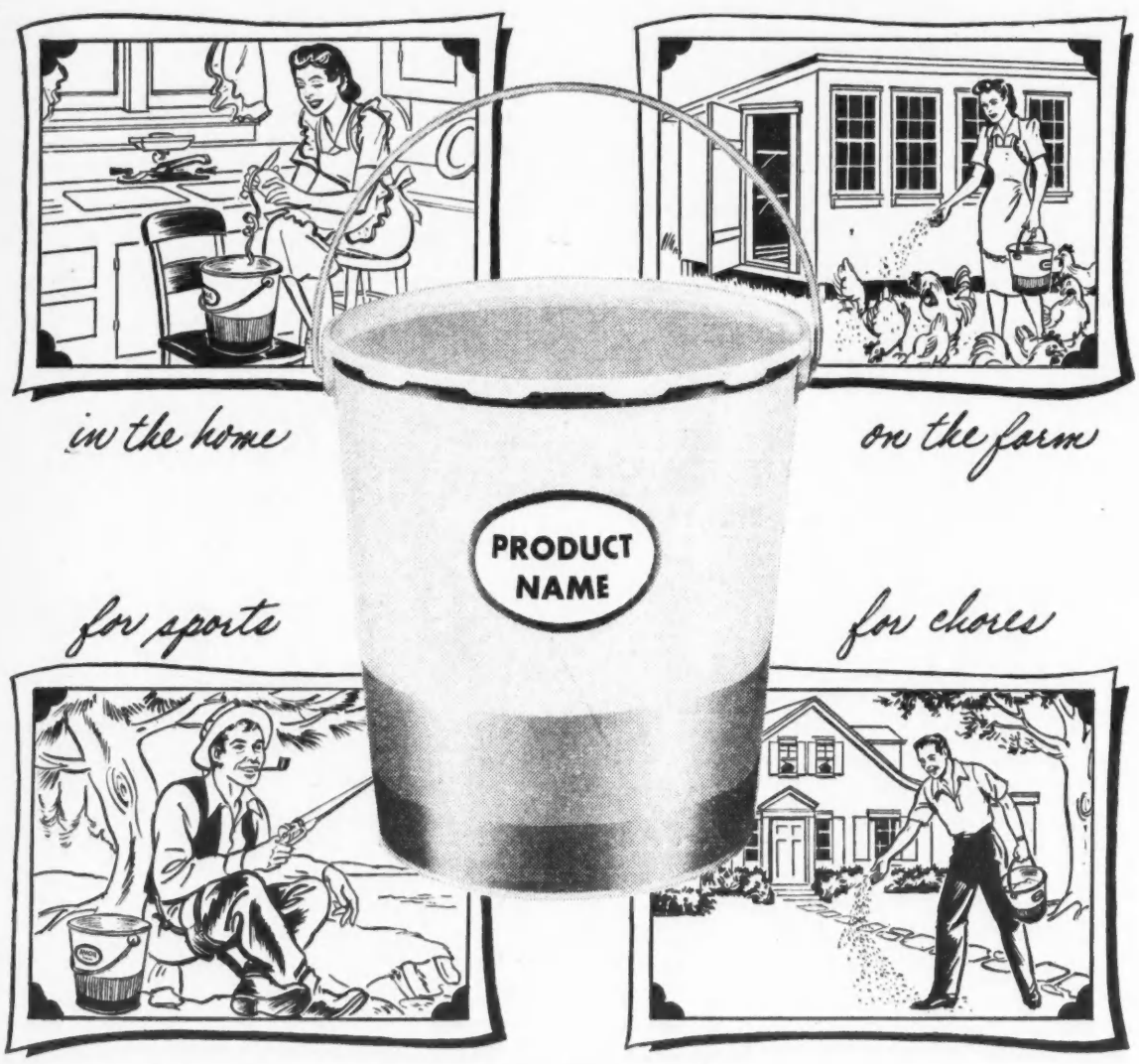

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Manganese, Lead-Zinc Deposits Reports Issued

Investigations of manganese deposits in Arizona and lead-zinc deposits in Idaho are described in two reports recently released by the Bureau of Mines. The reports are:—

Report of Investigations 4275, "Artillery Peak Manganese Deposits, Mohave County, Ariz." Trenching, diamond-drilling and some experimental mining were done, and benefication tests were conducted at the bureau's Salt Lake City testing laboratory. Drill hole logs and all sample data are included in the report, as is a brief description of metallurgical treatment of the ore.

Report of Investigations 4277, "Investigation of the Hornsilver Lead-Zinc Property, Butte County, Idaho." Trenching and diamond-drilling were done, and concentration tests were conducted at the bureau's Salt Lake City testing laboratory. Assay plans of surface workings, tabulations of assay results, results of concentration tests, and drill hole logs are included in the report.

Both reports are illustrated with maps and diagrams, and photographs showing some of the methods used are included in the Artillery Peak report. A free copy of either or both of these reports can be obtained from the Bureau of Mines, Publications Distribution Section, 4800 Forbes street, Pittsburgh 13, Pa. The publication or publications desired should be identified by both number and title.

Chemical Workers Data Reported by Labor Dept.

The preliminary estimate of the number of wage and salary workers engaged in production of chemicals and allied products during May has been set at 757,000 by the Bureau of Labor Statistics, Department of Labor. This figure compares with 766,000 in April and 761,000 in May of last year.

Workers engaged in production of products of petroleum and coal have been estimated at 239,000 for May, as compared with 237,000 in April and 232,000 in May, 1947. For the production of nonferrous metals and their products, the estimated number of workers in May was 469,000, compared with 475,000 in April and 486,000 in May of last year.

Van Hagan Gets Position With Forest Products Group

The Forest Products Research Society has appointed Charles E. Van Hagan secretary-treasurer, to succeed Thomas R. C. Wilson, who will complete his work with the society in August. Mr. Van Hagan was formerly associated with the United States Forest Products Laboratory for four years.

Trade Briefs

Sulphur production in France during 1947 totaled 107,340 metric tons, valued at 422,000,000 francs.

Chemical products imported into French Equatorial Africa during 1947 totaled 6,400 metric tons.

Acetylene will be manufactured from imported calcium carbide and oxygen at a new plant being established in Georgetown, British Guiana.

G.E. Completes Plant For Silicones Making

The chemical department of the General Electric Company, Pittsfield, Mass., has completed a new plant at Waterford, N. Y., for the manufacture of silicone materials. In partial operation for about a year, the plant is now ready to start full production to meet the demand for silicone rubber, oils, greases, resins and water repellents.

The new factory consists of six buildings and a chemical tank farm located on a fifteen acre plot. Its principal products are in the form of rubber, oils and bouncing putty, which are being primarily used in golf balls, gaskets and as a mold release agent in the manufacture of automobile tires and in aluminum and zinc die casting.

Goodrich Chemical Names Koch Advertising Head

The B. F. Goodrich Chemical Company, Cleveland, Ohio, has appointed George B. Koch advertising and sales promotion manager. John F. Moriarty, who formerly directed advertising promotion for the company, has been named to replace Mr. Koch as publicity director, and John F. Amos has been assigned to the advertising department as a technical writer.

Trade Briefs

Calcium carbide production in Poland totaled 6,542 metric tons in the third quarter of 1947, compared with 6,807 tons in the preceding quarter.

Caustic soda production by the Turkish State Industries in 1947 totaled 1,125 metric tons, and the 1948 output of this material is estimated at 1,235 tons.

E. I. du Pont de Nemours & Co has sold its factory bulding and warehouse at the foot of Thirty-ninth street, Brooklyn, N. Y.

French Indochina has tentatively allocated $745,700 for the purchase of chemicals from the United States and other dollar areas, and £163,000 for purchases from the sterling zone.

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Esler Johnson Company Formed in California

The Esler Johnson Company has been formed in Oakland, Calif., as a sales agency service group for manufacturers of agricultural and industrial chemicals and botanicals. The new concern plans to carry on an extensive agency program throughout seven western states from its headquarters at 1212 Broadway, Oakland 12. Organizer of the company is Esler Johnson, former Pacific Coast sales manager of John Powell & Co., insecticide manufacturer, New York.

Nitrogen Fertilizer Seen

—Continued from page 3

equally to the gain of 85,000 short tons of nitrogen for United States supply this year. First will be an expected increase of about 26,500 tons in private domestic production and imports. Small increases of imports are scheduled from Chile, Canada and Norway, making the totals from these sources 105,800 tons, 87,700 tons, and 5,500 tons respectively.

The other two developments for increasing the 1948-49 supply followed from Congressional action dealing with Army production at United States government plants. One of these provides that 10 percent of the anhydrous ammonia produced at such plants shall be turned over to commercial plants for conversion to fertilizer for domestic use. This will amount to about 28,000 tons of nitrogen.

The other provides that 50 percent of the 1948-49 United States export program for nitrogen fertilizer shall be made up of Army production. Since the export tonnage for the current year is the same as that of last year, 61,000 short tons of nitrogen, the effect of the latter provision is to release 30,500 tons of commercially produced nitrogen for domestic use.

The commercial export program for 1948-49 will be administered by the Department of Commerce, the same as last year. That agency will also direct the flow of Army produced ammonia to domestic plants for conversion to nitrogenous fertilizer. Equitable distribution of available supplies of nitrogen within the United States continues to be the responsibility of the fertilizer industry, the department said.

IEFC Sets 1948-49

—Continued from page 3

cerned, the 1948-49 program announced by the agency means but little change in the pattern of distribution and supplies from that of last year. Our export requirements will run at the same level of 55,600 metric tons, or 61,000 short tons. We will get a slightly larger amount from Chile and the amount retained from domestic production will also be up slightly.

United States production for fertilizer use is estimated at 765,635 metric tons of N, of which 585,100 tons is to be retained for domestic agricultural use. In addition, United States has been allocated 180,535 tons of imports, consisting of 79,535 tons from Canada, 96,000,000 from Chile and 5,000 tons from Norway. United States requirements were estimated at 907,200 tons.

Of the 2,233,283 metric tons of nitrogen distribution by the 1948-49 recommendation, 1,486,641 tons is to be produced and used within national boundaries. To supplement this indigenous production, 746,642 tons are to be imported by claimants from recommended sources. The imports recommended for 1947-48 amounted to 640,570 metric tons. The 1948-49 imports are to be supplied from the following sources:—

Belgium, 90,000; Canada, 136,600; Chile, 276,445; Italy, 34,277; Norway, 86,970; Switzerland, 4,100; United Kingdom, 61,850; United States, 55,600, and Hungary, 800. During the past year Italy has become a net exporter, and some tonnage is becoming available, for the first time since the war, from Hungary. The United States is a new importer, but will follow its customary pattern of making some exports.

Not included in the distribution recommended at this time are the Allied occupation zones of Germany, Japan, and South Korea. The IEFC said that a later recommendation will deal with requirements and suggested distribution among these areas.

Nitrogenous fertilizers are contracted for well in advance and the contracts for 1948-49 deliveries will normally be concluded at an early date. The program announced is subject to alterations as changes in production and export supplies develop.

Superphosphate Plants Planned

Empire Chemical Corporation, Spokane, Wash., plans immediate construction of two superphosphate fertilizer plants, one at Spokane and the other at Yakima, Ellensburg or Pasco. The plants, whose value has been estimated at $500,000, will use phosphate from the Maidenrock, Mont., mine.

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Agricultural Chemicals

Benzene hexachloride technical was priced lower last week and the decline was also reflected in the prices of dry and wet dusts. Competitive influences were primarily the cause of the downward revision although dry hot weather in the cotton belt has caused some relaxation of demand while adverse food publicity has not added any prestige to the market situation. Domestic animal tankage advanced moderately in price under increased buying from the feed trade. There were no other significant price changes uncovered. No break occurred in the strike at a large potash producing plant. Buyers continued to place contracts in superphosphate at the lately advanced prices. Ammonium sulphate was definitely in short supply with production of coke-oven material experiencing a cutback by the reduced output of steel resulting from the holiday and a labor walkout in some of the coal areas. Some producers of sulphate are limiting contracts to July.

Nitrogenates

Ammonium Sulphate—Coke-oven production of ammonium sulphate amounted to 141,801,921 pounds in May, according to the Bureau of Mines. April output was 108,935,421 pounds and in May 1947 production registered 135,297,534 pounds. Production from January through May totaled 666,834,815 pounds, compared with 659,339,061 pounds for the corresponding pound in 1947. Material made from purchased synthetic ammonia was 5,515,418 pounds in May against 3,906,756 pounds in April. Sales in May aggregated 132,441,223 pounds, against 112,015,109 pounds in the preceding month and 135,733,143 pounds in May last year. Total sales per five months ending May 31 were 672,687,388 pounds, compared with 684,509,522 pounds for the same time in 1947. Stocks on May 31, were 46,768,288 pounds, against 38,264,277 pounds on April 30 and 37,842,008 pounds at the close of May last year.

Bone Meal—Buying interest active enough to hold this market in a firm position. Attention has been focussed on prompt shipments of both raw and steamed grades. Offerings were limited during the past week owing to the sold ahead condition of output.

Dried Blood—Buying interest from the feed trade was sufficient to hold prices steady. Domestic material was priced at $6.65 New York and at $7 per unit of ammonia at Chicago.

Hoof Meal—Trading quiet at Chicago with $6.50 bid and $7 per unit of ammonia asked. Stocks limited at present but demand not active enough to advance prices.

Sodium Nitrate—Domestic nitrate firm at the late advance with stocks short. It was stated there is more demand for domestic and imported material than can be supplied at present.

Tankage—Priced higher here and in Chicago for domestic stock. It was stated that prices in Argentina are above the parity of the market here and that this condition is having a restricting influence on importations at present. The New York market was quoted at $6.85 and Chicago at $7.25 per unit of ammonia.

April exports of tankage and dried blood from Argentina are placed at 4,001 and 114 metric tons respectively by the Department of Commerce. The United States was the destination for 671 tons of tankage and 10 tons of dried blood. Tankage was shipped mostly to Europe with the United Kingdom the largest recipient.

Phosphates

Phosphate Rock—Increased production is finding a ready outlet and demand is said to be exceeding current production sufficiently to hold the market position tight. According to trade reports, part of the new production is being channeled for export use.

Superphosphate—It is stated that a sizable amount of contract tonnage in normal has been placed for shipment over the new year at prices averaging slightly above those for the previous season. No improvement in buying conditions for triple could be noted and the market remained in definitely tight supply. Bureau of the Census placed production of triple for the year 1947 at 383,833 tons. The high monthly point was reached in October when 37,944 tons were produced, the low was registered in January when output was down to 25,228 tons.

Potashes

Supply situation has remained tight with a large amount of tonnage kept out of distribution by the continuance of a strike at an important producing plant. Developments of this kind are unfortunate and add tension to an already tight supply situation. Replacement of equipment at some other production plants has occasioned temporary interruptions to output.

Los Angeles Fertilizer Market

Los Angeles—Offerings of all materials were scarce. Excellent call for most chemicals was noted. With the exception of fish meal, all prices were steady. Ruling prices are:—Ammonium nitrate, $72.04 per ton, f.o.b. this city. Ammonium phosphate, $65 per ton for 16/20 grade, f.o.b. Los Angeles, and $89.50 per ton for 11/48 grade, f.o.b. this city. Ammonium sulphate, $46 in bulk, $48.50 in bags. Blood meal, $6 per unit of ammonia at source. Bone meal, $60 to $62 per ton for steamed 1x30 meal. Fish meal, $152.75 per ton, f.o.b. Los Angeles, for 65 percent California sardine meal. Sodium nitrate, $49.50 per ton in 100-pound bags, $5 off for bulk. Potassium muriate, 45½c. per unit, f.o.b. Trona basis, bags additional. Potassium sulphate, 95 to 96 percent K_2SO_4, in bulk, 79c. per unit, f.o.b. Trona. Superphosphate, $20.20, f.o.b. this city, bulk. Tankage, dry rendered, ground, 50 percent protein, $5.50 per unit of ammonia at production plant, plus 10c. per unit of b.p.l.

Pesticides

Benzene Hexachloride — Priced lower at 2¾c. per gamma isomer which is equivalent to 30¼c. per pound for 11 percent technical for bags in carlots at the works. Dry dust 50 percent is lower at 21c. per pound in drums carlots delivered to distributors and wet dust 50 percent is 22c. per pound same basis. The l.c.l. price is 1c. per pound higher. The downward revision is attributed to competitive influences, a slackening off of demand occasioned by hot, dry weather throughout most of the cotton South and to adverse publicity on food. It is stated that inventories are meeting demand at present but could easily become short if wet weather should develop in the cotton belt. So far, it is said, Texas is the only state where rains have been normal.

According to a trade agreement signed between Argentina and the Netherlands, the latter country will deliver 350 tons of benzene hexachloride or its equivalent

—Continued on page 60

Market Trends

Prices Advanced

Tankage, 20c. per unit of ammonia, New York, and 25c. at Chicago.

Prices Reduced

Benzene hexachloride, technical, 5½c. per lb. dry dust, 50 percent, 1½c. per lb. wet dust, 50 percent, 1½c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
76.4	76.4	74.5	71.5

(For Current Prices see Page 9)

Superphosphate Statistics Reported for 1947

Preliminary statistics on normal, concentrated and wet-base superphosphate in 1947, compared with similar information for 1946, were released last week by the Bureau of the Census of the Department of Commerce. The data, reported in short tons, was as follows:—

	Normal Basis 18% A.P.A.		Concentrated Basis 45% A.P.A.		Wet-base goods Basis 18% A.P.A.	
	1947	1946	1947	1946	1947	1946
Stocks on hand beginning of year	646,278	808,027	54,713	32,556	13,616	15,577
Production	9,252,677	7,847,591	383,833	322,319	62,453	47,949
Receipts at plants	112,580	109,543	274	1,286	387	.....
Book adjustments	+60,031	+66,590	+2,015	+8,319	—146	+1,590
Disposition, total	9,255,184	8,185,473	374,701	309,967	58,075	51,500
Shipments	4,752,324	4,421,670	363,598	302,448	51,533	29,026
Used in reporting plants	4,502,860	3,763,803	11,103	7,319	6,742	22,474
Stocks on hand, end of year	856,382	646,278	66,134	54,713	18,235	13,616

For Late Market Developments, See Page 4

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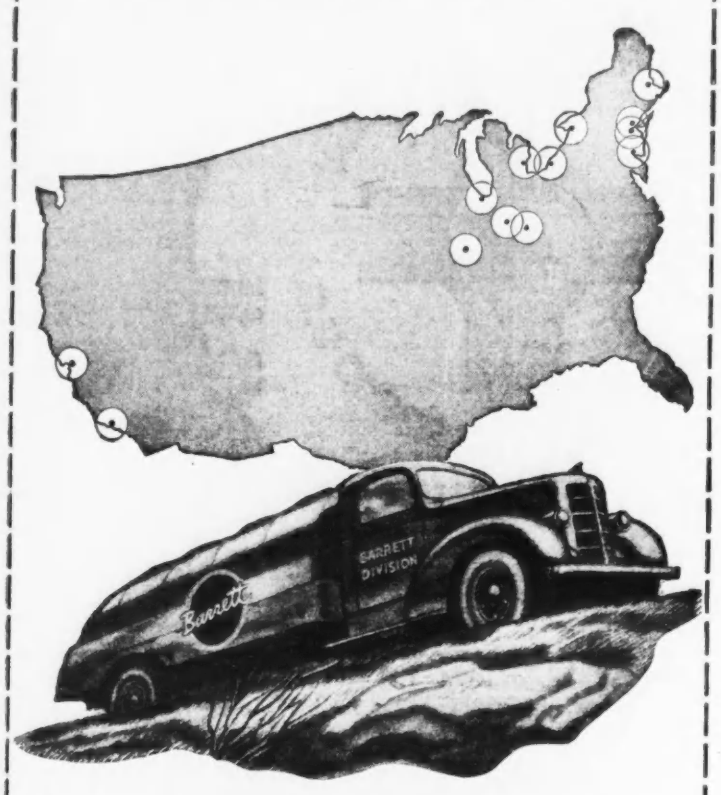

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Coaltar Chemicals

There were no changes in prices reported last week for either basic products or intermediates in the coaltar market, with the result that the weekly index held firm at 154.6. The supply and demand picture showed little change, with all of the basics in tight supply, with the exception of creosote, and most of the intermediates also in a short position.

The talk in the trade for some weeks had been to the effect that there might be rises, and rather sudden ones, in the price quotations for naphthalene and phthalic anhydride, but as of last week this possibility seemed to have faded, at least temporarily, and most producers felt that their prices were likely to hold at current levels, for the immediate present at least.

There was a slight easing in the supply of phthalic anhydride, but still it was not great enough to help the supply picture to any great extent. New productions facilities were expected to make the product freer in the months to come, however. Naphthalene sales for household use were tapering off but as it was they had extended long beyond their normal period and producers were gratified with the additional sales which, during May and June, they had not thought would come about at all.

Cresylic acid and cresol imports were still arriving steadily, and although they were helping the market here, they were still not large enough to mean much when examined against the heavy demand. It was expected that before long there would be a greater demand for toluol and xylol as a result of the request by the Army-Navy Specifications Board for the addition of 10 percent aromatics in aviation fuel.

The operating rate of steel companies having 94 percent of the steel capacity of the industry was 90.3 percent of capacity last week. This was equal to 1,627,600 tons of steel ingots and castings, compared to 1,716,000 tons one week ago, 1,380,700 tons one year ago, and 1,281,210 tons for the average week of 1940, the highest prewar year. These figures are from the American Iron and Steel Institute.

Production figures used in this week's market report are from the United States Department of the Interior, Bureau of Mines.

Market Trends

Prices Advanced

None

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
154.6	154.6	154.5	133.8

(For Current Prices see Page 9)

Basic Products

Benzol—The large volume users of this material were feeling the shortage more than the users of the material in lesser volume last week. It was said that while some of the heavier consumers found themselves short of supplies, the supply and demand was largely in balance for those who use the material in smaller quantities. In general it could be said that the item was in a relatively tight position, with none of it begging for a market. The price schedules remained firm and unchanged for this material during the past week and there were no indications given by producers that any changes were being planned for the immediate future.

During the first five months of this year there were 4,425,707 gallons of the motor grade produced in this country, as compared to 8,401,862 for the corresponding period a year ago. Production of the nitration (1°) amounted to 17,906,103 for the first five months of 1948, as compared to 18,958,085 for the first five months of last year. Production of the industrial pure (2°) was 41,932,460 for the first five months of 1948, as compared to 41,318,444 for the corresponding five months a year ago.

Coaltar—Producers last week were still doing all they could in an effort to keep their production facilities working at a point where they could come as close as possible to satisfying the demand for this material. During recent weeks, it was reported that there had been a slight easing in the demand for this material, but actually the easing was only minor and could not go a great way towards aiding the general supply position. Despite the lack of balance between supply and demand, prices last week remained firm and unchanged and there were no indications that any changes were planned for the immediate future.

Production of coaltar, crude, during the first five months of this year amounted to 296,145,461 gallons as compared to 305,390,503 gallons during the corresponding period a year ago.

Creosote—There were no price changes reported on the market for this material last week, and, after recent price fluctuations that brought all major producers and distributors down to a price of 19½c. a gallon, there were no indications that the material would undergo any price changes in the immediate future. There was still a considerable amount of the material on the market, and imports were still being received in addition to the high rate of domestic production. Demand for the material, however, was good, with sellers of it hoping for better drying weather in the timber country to stimulate sales of the item. Storage space for the goods was still difficult to find because of the heavy supplies on the market.

During the first five months of this year, 15,951,994 gallons of this material were produced in this country as compared to a total production of 16,528,890 gallons during the corresponding period a year ago.

Cresol—Both the USP and technical held firm as to price during the period under review and there were no indications that any changes in price were being planned for the immediate future. There was still a strong demand for this material. Domestic producers were doing all they could to keep production up to levels as high as possible and added to this were fairly good arrivals of the material from abroad. These combined factors, however, were not sufficient to satisfy the entire market and there was still a shortage of the item.

Cresylic Acid—During the past week imports of this material totaled 203 drums from Bristol, 246 from Antwerp and 77 from Rotterdam. Despite these imports and similar arrivals during the past few weeks, there was still a shortage of the material in this country. Producers were doing all they could to keep their facilities running at a point where they could accommodate as much of the market as possible but it was still impossible for them to meet all the demand. The material remained firm and unchanged as to price, however, and showed indications of staying that way, at least for the immediate weeks to come, despite the fact that it had undergone fluctuations a few weeks back.

Naphthalene—During the past week 1,000 bags of this material came into the country from Copenhagen, 1,066 from Rotterdam and 2,000 from Antwerp. Sales of this material were in the tapering off stage, but that was still something of a record for the second week of July. Ordinarily the season for the household product ends early in June, at which time most housewives have mothproofed all winter garments. This year, however, because of the continuing cool weather, sales continued throughout June and into the early part of July. They were not at particularly high levels last week, but some of the material was still being sold for household use. Prices on this material held firm and unchanged during the past week, and there were no immediate indications of any price changes. Several weeks ago, it was said in some circles that the price of this material might rise, but after a long period of discussion, noth-

Coke By-Products

Estimates of by-product cokeoven operations in the week ended July 3 indicate the following output of by-products from that source:—

Ammonia liquid NH_3	lbs.	1,175,720
Ammonia sulphate	lbs.	30,414,969
Benzol	gals.	3,836,500
Coaltar	gals.	14,232,400
Creosote oil	gals.	792,004
Naphthalene, crude	lbs.	1,881,152
Phenol	lbs.	221,768
Toluol	gals.	767,312
Xylol	gals.	173,264

For Late Market Developments, See Page 4

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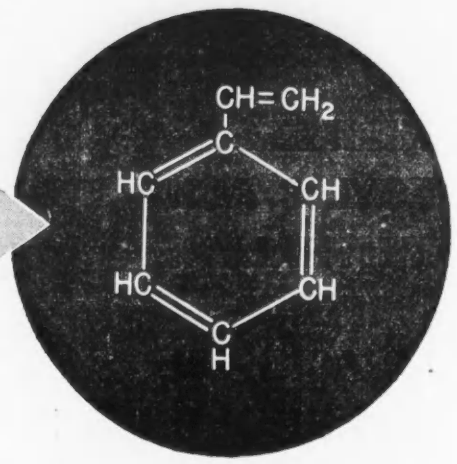

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ing was heard from the producers and there were no indications that there would be any changes immediately.

Phenol—Supplies of this item were still reported to be tight last week and there appeared to be no prospects of an immediate easing despite the fact that producers were doing all they could to bring their production facilities up to a point where they could come near satisfying the demand being pressed by users of the material. The plastics industry in recent weeks had been requiring less of this material from producers, and while that at first seemed likely to ease the general supply situation, later events proved that the decreased demand was only minor when examined against the overall supply picture, and the material still remained in a tight position as far as supply went. England was known to be producing this material, but she preferred to keep it within her own borders for use there rather than export it. With that country's great need for dollars it had been hoped that she would export some of it and thereby help the supply position of this country. But that did not come about and sellers of the material in the United States still found themselves short of the item. A strike closed the plant of one producer last week.

Pyridin—During the first five months of this year, 569,234 gallons of the crude material were produced in the United States as compared to 265,564 gallons during the corresponding period a year ago. Production of the refined amounted to 413,972 gallons as compared to 362,953 gallons during the corresponding period last year. The denaturing grades of this material last week were reported to be reasonably free as to supply, but the shortage still obtained in the market for the refined. Demand continued to be strong for both grades and there were no indications that it would be otherwise, at least for the immediate future. Prices, however, remained firm and unchanged during the past week despite the difficulties being felt by the producers of the material.

Solvent Naphtha—Production of the crude heavy solvent in the United States during the first five months of 1948 amounted to 1,888,142 gallons as compared to 1,886,533 gallons during the corresponding period a year ago. Production of the refined light solvent totaled 244,920 gallons as compared to 237,690 gallons during the corresponding period of 1947.

In the more recent past paint and varnish makers had been taking less solvent naphtha than they had been previously, and when this decrease was first noted it was hoped that the lessened demand would do something towards helping the overall supply picture. As events showed, however, the materials that were not taken by the paint and varnish makers were quickly absorbed by other users and there was no considerable improvement in the overall supply picture. Supplies, as of last week, still remained tight and demand was strong. There were no changes in the price structure, despite these conditions, and there were no indications that any changes would be noted in the immediate days to come.

Toluol—Production of the nitration (1°) during the first five months of 1948 amounted to 9,280,217 gallons as compared to 8,213,758 gallons during the corresponding period of 1947. Production of the industrial pure (2°) totaled 2,020,453 gallons as compared to 2,250,847 gallons during the corresponding period in the first five months of 1947. Production, in gallons, for all other grades amounted to 198,927 gallons during the first five months of this year while during the first five months of last year the production figure was 446,377 gallons.

The material was still tight as to supply but it was not in a precisely critical stage. Demand, however, continued good and the recent request of the Army-Navy Specifications Board for the addition of 10 percent aromatics in aviation gasoline was expected to cause an even greater demand for this product. The smaller users of the material were said to be in a relatively better position as far as supply went than were the users of the materials in large quantities, since it was easier to pare down a part of the requirements of a large user than a small one. Pricewise, the material was firm and unchanged during the period under review and there were no indications that there were any price changes planned for the immediate future.

Xylol—Production of this material in the United States during the first five months of the current year amounted to 2,977,033 gallons as compared to 3,117,073 gallons that were produced during the corresponding period a year ago. Although

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it was not critical, this item continued to be tight as to supply. Demand for it was good and would probably pick up as a result of the demand for the addition of 10 percent aromatics in aviation gasoline recently made by the Army-Navy Specifications Board. There were no fluctuations in the price of this material reported during the past week, and producers of it gave no indication that they were planning any, at least for the immediate weeks to come.

Intermediates

Acid, Betaoxynaphthoic—There were no price changes reported in the market for this material during the past week and there were no indications given by producers that any were planned for the immediate future. Supplies were still on the tight side and demand was reported to be good.

Acid, Broener's—This material was being quoted at $1.34 a pound, in barrels, last week, which represented no change from quotations in the immediate past. Supplies of it were not at particularly high levels, but demand continued to be strong.

Acid, Cleve's—There was no change in the strong demand situation for this material during the past week, and likewise there was no change reported in the tight supply situation. Prices for the acid, however, remained firm and unchanged at the previous quotations of 61c. to 65c. for the mixed, in barrels.

Acid, Fumaric—The technical, in barrels and drums, was being sold for 30c. to 31c. a pound last week. These prices represented an increase as of the first of July. Demand for the material was still strong and supplies on the tight side.

Acid, Gamma—In barrels, this acid was being sold for $1.13 to $1.20 a pound last week. These figures represented no changes over quotations of the immediate past and there were no indications that any would be brought about for the present time at least. Demand for the acid continued to be good, and the demand for it was as strong as it had been for several months past.

Acid, J—The price of $2.64 to $2.66, barrels, works, 20 percent basis, continued unchanged during the period under review and producers gave no indications that any changes for the material were planned for the immediate future. Supplies were still on the tight side and demand continued to be good.

Acid, Maleic—As of July 1, the price for this material was 30c. to 31c. a pound, in drums. The demand for the item continued to be as strong as ever but there was still a tightness noted in the supply situation.

Acid, Malic—This material was being sold for 47c. a pound in kegs, powdered, last week, which was the same price at which it had been selling for some weeks past. There were no indications that any changes in price might be expected in the immediate future. Supplies of it were still tight, but the demand continued to be strong.

Acid, Neville and Winther's—The price range of 80c. to 84c. a pound, in drums, prevailed last week and there was no word from producers that any changes in price might be expected in the immediate weeks to come. The demand for the material continued at the same strong rate that had been noted during the past months, but there was still something of a shortage as far as supply went.

Acid, S—In barrels, at the works, this item was going for $2.75 to $2.79 a pound. Demand continued strong but there was a tightness in the supply situation.

Alphanaphthol — This material was available at between 63c. and 70c. a pound last week, which was the range at which it had been quoted for some time past. Demand for it continued to be good but the supply situation still left something to be desired.

Alphanaphthylamine — The barrels price, per pound, for this item continued unchanged at 38c. to 38¾c. per pound last week, and there were no indications that any changes in price were planned for the immediate future. The demand for the material continued to be good, but the supply situation was still not as strong as producers wished to see it.

Phthalic Anhydride—This item was still in a short supply position last week, although there were some signs of easing and it was expected that there would be even more improvement within a few months. Prices held firm at previous levels.

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Petroleum Derivatives

Maintenance of toluol and xylol supply levels featured the petroleum derivatives market last week, as the government 10-percent aromatics regulation failed to cut into commercial reserves. Producers were agreed, however, that the axe would fall shortly, restricting not only pure aromatics, but high solvency naphthas as well.

Aliphatics were neither better nor worse during the week, remaining short. Lighter fractions were firm, as supplies continued readily available. Fully-refined paraffin wax stabilized at lower levels following recent three-twentieth-cent reductions in slabbing differentials. Crude, scale wax and the tankcar base price for fully-refined paraffin were unchanged.

Solvents and Diluents

Cleaners' Naphtha — Relatively unchanged market conditions prevailed for this and other aliphatic materials last week. Still snug despite steady shipments of minimum quantities to regulars, this solvent was practically unobtainable on the spot market. With production bearing a definite relationship to gasoline output, chances continued poor for improvement of the supply position before Fall. Prices held at 14c. per gallon, tanks, on the East Coast and at a range of 10⅝c. to 12c., tanks, in group 3.

Protective Coatings Solvents—The supply position of aromatic solvents was neither better nor worse during the week, remaining short. As of last week, deliveries were being made on time and in sufficient quantities to commercial customers. How long this condition would last was anybody's guess. General consensus of opinion among producers was that the axe would fall before August 1. The grim supply outlook, of course, was occasioned by the recent government regulation requiring 10 percent aromatics in all shipments of aviation fuel to the Army and Navy. This was generally believed to mean that stocks of toluol and xylol available to industry would be severely curtailed. Meanwhile, commercial demand continued on a par with levels of former weeks. Prices for both coaltar and petroleum aromatics were maintained at a range of 28c. to 30c. per gallon, tanks.

Both blends and higher boiling range aromatics were at former supply levels, continuing tight. Some aliphatic-aromatic materials were still said to be readily available, but the majority of high solvency naphthas were limited to narrow stocks. Expectations were that both types of materials would shorten soon, related as they are to the availability of pure aromatics. Price-wise, the market was without variance.

Little change was noted throughout the range of aliphatics. Mineral spirits and stoddard solvent were still quite narrow. Other materials, though short, were reported to be in better supply than the above-mentioned products.

Some uptake in demand for lacquer diluent, brought on by the rise in trade sales, was said to have narrowed stocks somewhat. A spot check of consumers on the East Coast revealed no marked reaction to the hexane-type lacquer diluent introduced in that area by one maker several months ago. Prices were firm in all areas, continuing at 16c., tanks, on the East Coast and 12¼c. to 13c. per gallon, tanks, group 3.

Inventories of mineral spirits were generally reported to be low. Further pressure on stocks was believed due to the increase in demand from makers of trade sales. No relief in the situation was anticipated until after the Summer motoring season. Prices were stable at 14c. per gallon, tanks, on the East Coast and 10¼c. to 11½c., tanks, in group 3.

Similarly tight supply conditions prevailed for stoddard solvent last week. Demand was said to be better. Prices were maintained at 14c. per gallon, tanks, on the East Coast and 11c. to 11¾c., tanks, in group 3.

The price structure of V. M. & P. naphtha was without fluctuation during the period under review. Group 3 producers quoted 11¼c. to 12c. per gallon, tanks, while East Coast makers were uniform at 15c., tanks. Supplies were narrow, but not quite as bad as those for certain other aliphatics, notably mineral spirits.

Rubber Solvents—Without appreciable change during the past week, these materials continued short. Demand was steady. Prices were firm at 15c. per gallon, tanks, on the East Coast and 11c. to 11¾c., tanks, in group 3.

Markets at Other Centers

Los Angeles—Interest in petroleum solvents and diluents was as broad as ever here last week. However, limited supplies continued to make the market tight. Prices were steady. Stoddard solvents and petroleum spirits, 50 to 199 gallons, 19.2c.

Lighter Fractions

The market continued on an even keel with levels of previous weeks. Prices for liquefied petroleum gases were firm at 6c. per gallon, tanks, for butane and 5.7c. per gallon, tanks, for propane. Other lighter fractions follow:—Heptane, 12½c. to 13½c. per gallon, tanks; hexane, 13½c. to 14½c., and pentane, 10½c. to 11½c. All listings are f.o.b. refinery, group 3. Demand was steady. Supplies continued good all along the line.

Los Angeles—Demand for propane and butane continued to exceed the suply. Prices were steady. Propane was quoted at 6.8c. per gallon, f.o.b. Ventura, Cal., and butane was named at 7.3c., ex-tax, that city.

Waxes

Paraffin — Fully-refined grades were stable at lower levels last week following the 3/20c. reduction in slabbing differentials. Crude, scale grades and tankcar prices of fully refined paraffin were maintained at former levels. Current quotations on fully-refined paraffin in slabs, loose, carload, f.o.b. refinery, follow:—122-124 ASTM, 7.35c. per pound; 125-127 ASTM, 7.65c.; 128-130 ASTM, 7.90c.; 130-132 ASTM, 8.05c.; 132-134 ASTM, 8.30c., and 135-137 ASTM, 8.95c. per pound. Producers, meanwhile, reported that the supply position had improved materially, with most commitments being met on time. No new business was being accepted, however. Demand was described as off from previous levels.

Los Angeles—Paraffin wax supplies were getting much better, but the market remained tight. High melting point, 140-147 ASTM, carload, loose slabs, f.o.b. shipper's refinery San Francisco Bay area, 10.15c. per pound. High melting point, 157-162 ASTM, carload, loose slabs, 14½c., f.o.b. refinery.

Miscellaneous

Crude Oil—The amount of domestic crude petroleum that will be consumed or exported in July is estimated by the Bureau of Mines at 5,630,000 barrels daily. The forecast for July includes estimates of a total gasoline demand of 85,000,000 barrels, total crude runs to stills of 5,660,000 barrels daily and a gasoline yield from crude of 41.2 percent. The revised forecast for 1948, occasioned by the change in the market during the past three months, indicates a probable increase, on a daily average basis, of 8.6 percent in domestic crude oil production and an increase of 9.9 percent in total crude runs. It is anticipated that total imports of all oils into the continental United States will exceed exports and shipments to non-contiguous territories by about 38,000,000 barrels. Arrivals last week aggregated 478,614 barrels of crude petroleum from Cartagena and Puerto La Cruz.

Fuel Oil—Importations during the week totaled 311,000 barrels of fuel oil from Aruba.

Market Trends

Prices Advanced

None

Prices Reduced

None

(For Current Prices see Page 9)

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended June 26 totaled 22,081,000 barrels, according to the Bureau of Mines. Compared with the total of 222,321,000 barrels for the preceding week, this represents a decrease of 240,000 barrels, comprising an increase of 38,000 barrels in stocks of domestic crude and a decrease of 278,000 barrels in stocks of foreign crude. Heavy crude-oil stocks in California, not included in the gasoline bearing stocks, totaled 7,551,000 barrels, an increase of 251,000 barrels.

For Late Market Developments, See Page 4

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Textile and Leather Chemicals

Consuming demand for most textile and leather chemicals continued restricted to actual requirements last week and the volume of business showed no improvement over the past several weeks. Prices were generally unchanged and steady. The only change occurred in egg yolk, which was in better supply and reduced 1 cent per pound for carlot business. This brought the index down to 379.5, compared with 377.6 a month ago and 314.8 for same time last year. Other egg products were firm and edible and technical albumen egg were maintained at former levels.

Inquiry for potato starch was fairly active, though trading was reported dull. Quotations were unchanged and well held. It was announced by the Department of Agriculture that CCC would purchase 200,000 long tons of potato flour for relief feeding in Bizone Germany. This it was felt in trade circles might reduce the output of potato starch next season as the the bulk of government surplus will likely be diverted to the manufacture of flour. High grades of tapioca flour on spot were scarce and in moderate request, while mediums were inactive and in liberal supply. Shipments from Brazil were reported steady, though trading was light and spotty, chiefly in the higher grades. Sago flour was in limited supply on spot and closely held, reflecting the unsettled condition of primary markets by strikes which have retarded shipments.

Quiet conditions continued to prevail in tanning materials. Tanners were reported out of the market insofar as replacements were concerned. Large inventories are held by the tanners, and reduced tanning operations also were deterrent factors. Prices for shipment of most tanning materials were unchanged and generally steady.

According to advices from Australia, wool experts stated that the increase in reserve wool prices for the new season is an indication that new prices will go still higher. The reserve price announced July 1 by the Australian Wool Reserve Commission is 24d, a 4d rise over last year's figure. It means that after the new auction season begins in August, wool not realizing 25d will be bought by the commission to be resold later after demand has improved. Increased reserve prices only apply to fine quality types.

Japan's rayon industry is planning to more than double its production of both filament and staple during the year, according to reports from Tokyo. The plans have the support of the Japanese government and SCAP. Production of rayon filament yarn in 1947 was 15,710,000 pounds and staple was 18,749,000 pounds. The 1948 plan is for over 40,000,000 pounds and 36,500,000 pounds, respectively.

Market Trends

Prices Advanced

None

Prices Reduced

Egg yolk, 1c. per lb.

Comparative Price Indexes

(1926=August 1, 1914)

Last week	Prev. week	Last month	Last year
379.5	380.3	377.6	314.8

(For Current Prices see Page 9)

Chemicals

Acetic Anhydride—Market was quiet, but steady. Supplies were light and well held at unchanged quotations.

Aluminum, Acetate—Trading was confined to actual needs. Prices were firm and reflected the strength of basic materials.

Bichromates—Deliveries against former contracts continued to take the output. Market continued in a firm spot, as the production to date has been below consuming requirements. Export business was limited because of the dearth and high cost of resale material.

Chrome, Acetate—While demand was light, the market was unchanged and remained firm with the strength of basic materials.

Sodium, Acetate—Steady consuming demand continued to keep supplies low. Prices were without change and firm.

Sodium, Hydrosulphite—Demand was restricted to delivery against former orders. Quotations were unchanged and well held.

Sodium, Peroxide—Higher production costs caused makers to advance quotations 2c. per pound, recently which became effective July 1. This was the first increase during the past three years.

Sulphonated Oils—Reduced operations by textile mills, due to vacations and overhauling of machinery, was reflected in the reduction of demand of most sulphonated oils. Other users also reduced demand to small lots for immediate needs. Prices, however, were maintained for animal, fish and vegetable sulphonated varieties.

Sizing Materials

Albumen, Egg—Consuming inquiry was fairly active, with trading moderate and mainly for prompt delivery. Prices were maintained at former levels. Edible flake ranged from $2.62 to $2.70 per pound, depending upon seller and quantity. Supplies were not heavy and closely held. Technical continued in limited supply and was firm at $1.55 to $1.65 per pound, according to quantity.

Dried egg produced during May totaled 5,541,000 pounds, compared with 14,014,000 pounds for the same time last year, according to the Bureau of Agricultural Economics. Production consisted of 4,158,000 pounds of whole egg, 328,000 pounds of albumen and 1,055,000 pounds of dried yolk. Of the whole dried egg produced, 285,000 pounds were dried from frozen liquid eggs. The quantity of liquid egg produced during May totaled 103,652,000 pounds, compared with 129,216,000 pounds in the same month last year. The quantity produced for drying was much smaller than last year and continues to account for most of the decrease shown in total liquid produced so far this year. Frozen egg production during May totaled 82,652,000 pounds, an increase of about 5 percent over the production of 78,942,000 pounds in May last year. Production during the first five months of this year totaled 263,669,000 pounds, compared with 262,291,000 during the same period last year. Storage holdings of frozen eggs on June 1 totaled 250,797,000 pounds, compared with 202,245,000 on June 1 a year ago and 244,836,000 pounds for the 1943-47 average. Of the June 1 holdings, the government owned 40,055,000 pounds.

Albumin, Blood—Deliveries against former contracts continued in good request. Production was sold ahead and the output moved steadily against a backlog of orders. Prices were without change and steady.

Dextrin, Corn—With production sold up and deliveries behind delivery schedules, consuming inquiry was more active than for other corn derivatives. Prices were steady and unchanged for all grades.

Egg, Yolk—Supplies have been increasing, owing to large production and quiet demand. Offerings were freer, than other egg products and market was easy. Demand was fair, chiefly for immediate needs. Quotations were lower at 93c. to $1 per pound, according to quantity. Production of egg yolk in May totaled 1,005,000 pounds, compared with 974,000 pounds for the same month last year.

Sago Flour—Limited supplies on the spot were closely held at 9c. to 9½c. per pound, depending upon seller and quantity. The market reflected the uncertainty of getting replacements from primary market, due to political disturbances, which have delayed shipments. Inquiry for 1,000 tons for shipment to Japan was in the market. Shipments were quoted nominal at 8½c. per pound ex-dock, New York for best grades and 8c. for mediums.

Starch, Corn—Activity in this market was confined to the movement of starch against current orders. New business was inactive. Prices were unchanged and steady for all grades. Private estimates placed the 1948 corn production over 3,000,000,000 bushels, against 2,400,952,000 bushels last year and a 10-year average of 2,813,529,000 bushels. Visible corn supply increased 12,000 bushels to 5,087,000 bushels for the week ended July 3, compared with 9,807,000 bushels for the same time last year, it was reported by the Chicago Board of Trade.

Corn starch and several other cereals were removed July 6 from the positive list of commodities in short supply, it was announced by the Office of International Trade. Shipments may be made without validated licenses to any destination outside the European group of countries. The reason given for the removal

For Late Market Developments, See Page 4

of these commodities from the positive list is the general improvement of cereal supplies throughout the world and the present crop forecasts in the United States and Canada. Under the "R" country procedure, export licenses are still required for the shipment of these commodities to Europe and adjacent islands, French North Africa, and the Asiatic possessions of Turkey and the U. S. S. R.

Starch, Potato — Demand was inactive and was affected by the Summer slump in adhesives, textile mills and other users. Inquiry was fairly active, but trading was confined to small lots for actual needs. Prices were unchanged at 8c. per pound, carlots, New York basis and 9.20c. to 9½c. per pound for spot delivery, as to quantity. The purchase of 200,000 long tons of potato flour by CCO for relief feeding in Bizone, Germany, announced by the Department of Agriculture, it was reported may reduce the production of potato starch next season, as the bulk of surplus government potatoes will likely go into the manufacture of flour instead of starch.

Tapioca Flour—Trading was fair and centered in the high grades which are scarce on spot and firmly held for shipment while mediums were in plentiful supply and easy. High grade was quoted at 9⅞c. per pound, exdock, New York. Supplies on spot were held at 10¼c. to 10½c. per pound, according to quantity. Mediums were quoted at 8c. per pound, exdock and at 8¼c. to 8½c. on spot depending upon quantity.

Tanning Materials

Chestnut Extract—Outside of small demand for actual needs market was dull and featureless. Tanners continued to operate from good-sized inventories. Prices were unchanged and were more or less nominal.

Divi Divi—This market continued dull, as consuming inquiry was restricted. While business was slow, offers for shipment were not liberal and shipments were well maintained at current levels. Owing to the lack of trading the market was more or less nominal. Arrivals at New York last week totaled 1,150 seroons and were delivered against former orders.

Mangrove Bark—Although inquiry was inactive, the scarcity of exportable bark for shipment kept the market in a steady position. Consuming inquiry was quiet and the market nominal at current quotations.

Myrobalans—Imports at New York were reported at 2,240 bags from Bombay last week for delivery on prior contracts. Offerings for shipment continued quite liberal, but consuming inquiry showed no improvement.

Quebracho Extract—There was no noticeable improvement in demand for replacements from tanners last week. Inquiry for shipment was not only slow from American tanners, but reports from Buenos Aires stated that little business for export was in evidence from all countries, owing to high export prices maintained by the Argentine Trade Promotion Institute. Arrivals have been extremely light of late and some 13,724 bags were received at Atlantic ports from Buenos Aires last week for delivery on previous orders. It was stated that tanners had good-sized inventories on hand and with reduced tanning operations, interest in replacements of late has been practically nil. Prices for shipment were unchanged.

Valonia—This market was inactive, but prices for shipments were unchanged and generally steady. Buying interest showed no improvement last week. Quotations of all grades were unchanged and well held. Imports of valonia at New York were reported at 18,690 bags last week, and were delivered against prior contracts.

Wattle—Conditions were unchanged and steady. Offerings for shipments were not liberal and were maintained at former levels. Consuming inquiry was light and spasmodic, with recent trading of a hand to mouth nature.

AATCC to Publish Vat Dyes Manual

The American Association of Textile Chemists and Colorists' publications committee is planning to launch the preparation of a monograph on the subject of "The Application of Vat Dyes." It is planned to procure the services of experts in the fields of applying these dyes on cotton and rayon, including the latest techniques in dyeing piece goods, yarn, warps, packages and printing. The contemplated volume will be concise and modern, with special emphasis on the newest developments in the field of dyeing machines.

The publications committee has already completed work on the association's first monograph, which covers textile testing methods. The board of editors assigned to the project have virtually completed the work of compiling material, and it is expected that the book will be issued in the Fall.

The association has also appointed a standard merchandising committee to handle the production and distribution of testing apparatus, test fabrics and standards. The committee consists of H. F. Herrmann, Dr. H. C. Chapin, W. R. Moorehouse, J. R. Bonnar and Dr. H. W. Stiegler. The committee wil control all questions of policy in connection with the distribution and procurement of approved apparatus, fabrics and standards.

Textile Technology Inst. Gets Two Federal Contracts

The Institute of Textile Technology, Charlottesville, Va., has been awarded government contracts for the expansion of two research projects currently being carried on at the institute.

One of the projects, sponsored by the Office of Naval Research, calls for a thorough study of changes that occur in cellulose fibers when attacked by various fungi, and the second, signed under the Research and Marketing Act, calls for a study of cotton textile soiling.

Clinton Industries Gets $6,500,000 Loan

Clinton Industries, Inc., manufacturer of corn products, has negotiated a loan of $6,500,000, which will be used to complete expansion of its plant at Clinton, Iowa, and to provide additional working capital. The loan was secured from a group of midwestern banks and bears an interest rate of 3 percent for seven years.

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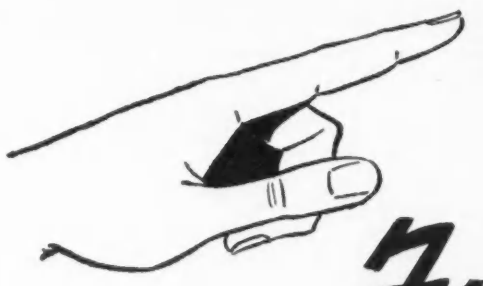
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Drugs and Fine Chemicals

Though the major part of the drug and fine chemical market price structure held free from change and held to a relatively firm basis, higher quotations did come on two raw materials, and penicillin in all forms was lower. Argols were advanced at the origins, a development that ordinarily would strengthen the position of domestic tartaric acid. However, the more than plentiful supply of imported material offset in some measure the stronger raw material market. Rising prices in Brazil was the theme in castor beans. Penicillin reflected gains in availability and more attractive production costs.

Plentiful supplies of formaldehyde were in the market for the time being at least, the direct result of a sudden slump in consumption, particularly in the synthetic resin industry. Tankwagons were reported threading the New England highways looking for buyers, a contrast to the situation in the not distant past when producers were almost forced to seek a place to hide from would be buyers—so scarce was the article. The excellent supply of methanol was not without its potential effects on industries consuming that item.

Ethyl alcohol, both pure and denatured, continued to show unsettlement. The recent drop in price has not been communicated to dependent products as promptly as usual, but all of such materials were rather disturbed. Ethyleneglycol was declared to be scarce. Acetone was in good reserve under somewhat less demand, despite which prices were recently revised upward until all differences between producers' minimum quotations were composed. Propyl alcohol was reported in very tight position so far as the largest supplier was concerned.

Menthol was fairly firm at both ends of the price range, this in the absence of much request. Producers supplying the bulk of diethylstillbestrol reported a firm, stable market. Outlook for a resumption of activity in ephedrine was excellent and revival of larger demand will not find the market possessed of superior stocks. Britain continued to buy castor beans in quantities sufficient to advance the market but rise in their replacement costs failed to change the domestic castor oil producers' price schedule.

Acetanilide—Current reports declare that there is far more stock available than there is need for this material. Most sellers now stand on the basis of 50c. per pound for U.S.P. goods and that goes equally for producers and resellers. One producer remains at 40c. It has been stated that the late rise in prices named in some directions had little to do with the economics of supply and consumption. And the latter element has decreased sharply of late.

Acetone—The market was reported as being reasonably steady on the basis of higher prices that became effective on July 1. However, the movement into consuming channels has decreased in some degree and at the moment the market is far less active than it had been a short time back.

Acetophenetidin—Movement into consumption was routine in character and made but moderate total volume of trade by the end of the past, short week. However, prices remained very steady in a market fairly well clear of the element of price competition between suppliers.

Acid, Acetylsalicylic—Though the demand was not expansive, it had a steady quality that gave substantial support to the market as quoted and worked to the complete stabilization of market undertones.

Acid, Ascorbic—Trade was normally active and equal in volume to the recent transactions between producer and consumer. Prices were in very steady position and the supply was ample for more than the current takings by manufacturing consumers.

Acid, Cacodylic—Stability was the leading characteristic of the market. This condition of affairs applied equally to demand and price. Jobbing transactions made the bulk of trade and full prices were paid throughout the period since no tendency to shade was to be found.

Acid, Citric—Highly seasonable weather prevailed during the period since the previous report on this article. The result has been that shipments have gained moderately and inertia has been removed from the market as a whole. Pricewise, the market seemed steady. Supplywise, there seemed to be sufficient goods to meet needs.

Acid, Gallic—Trade has decreased to some extent but not sufficiently so to create unsettlement in the market position on spot. Prices were reported as holding very steady and competition was said to be negligible at the present time. Stocks were fair.

Acid, Mandelic—A deal of stability has come to the market since the last adjustment of quotations. Stocks were ample for all requirements and prices were said to be in line with present production costs and the total manufacturing requirements of consumers.

Acid Salicylic—The market in general held firm. Absence of excess stocks tended to offset any contraction that may have developed with respect to the manufacturing needs of a few consumers. Prices were thoroughly well maintained and signs of an easing of their position were lacking.

Acid, Tartaric—There seems to be more imported acid around than its holders can find prompt buyers. Substantial quantities have been circulating the spot without much business resulting except where special price attractions were developed by the holders. Domestic producers continued to maintain a very steady schedule but the keenness of foreign competition affected the sales position of the home manufactured product.

Alcohol—More than a fair amount of unsettlement prevailed in this market. The price trend has been downward for some time past and nothing at the moment suggests an early check to the movement in favor of manufacturing consumers. Release of beverage makers from restrictions regarding their consumption of grain may ultimately increase the consumption of neutral spirits used for rectifying purposes, but latest reports as regards the position of the beverage industry suggests an oversupply as likely to weaken prices for the finished product—a condition that is apt to find reflection in the consumption of alcohol for beverage purposes.

As regards the situation with respect to consumption of alcohol for industrial purposes, some buyers have a lessened need for the article, a fact that has found some reflection in the continued decline in quotations prevailing on industrial alcohol. Molasses is far lower today than it was around the first of the year, a further weakening element in the alcohol price structure since it reduces production costs in some measure and tends to increase the element of competition between suppliers.

The latest data on alcohol were released June 29 by the Alcohol Tax Unit, Bureau of Internal Revenue, Treasury Department, on supply, production withdrawals, and stocks of ethyl, completely denatured and specially denatured alcohol during the month of May, 1948, in comparison with May, 1947.

Production

	Proof gallons—1948	1947
Ethyl	29,851,993	27,982,172
*Completely denatured	790,128	2,136,245
*Specially denatured	12,963,517	11,789,479

Withdrawals

	Wine gallons—1948	1947
†Ethyl, tax paid	4,072,819	2,170,936
tax free	25,500,200	25,980,199
*Completely denatured	795,677	2,155,902
*Specially denatured	13,471,600	11,938,747

Stocks

	Gallons—1948	1947
†Ethyl	34,871,091	29,258,375
*Completely denatured	188,981	67,925
*Specially denatured	1,055,795	1,463,523

* Wine gallons.
† Proof gallons.

According to the Alcohol Tax Unit, materials used in industrial alcohol plants in

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Argols, $2 per 100 kilos.
Castor beans, $15 per long ton.

Prices Reduced

Penicillin, 2c. per 100,000 units.

Comparative Price Indexes

(1926=August 1, 1939)

Last week	Prev. week	Last month	Last year
260.2	260.2	256.3	252.5

(For Current Prices see Page 9)

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the Mays of 1948 and 1947, were as follows:—

	Pounds	
	1948	1947
Corn and corn products	14,238,115	65,417,935
Rye and rye products	.....	.....
Malt and malt products	1,981,683	5,891,175
Wheat and wheat products	60,000	62,786
Sorghum grain and sorghum grain products	4,484,644	.....
Other grain	.....	.....
Total grain	20,764,442	71,371,896
Potatoes and potato products	13,501,217	2,902,575
Cassava and cassava products	.....	733,717
Other materials	385,833	16,525
	Wine gallons	
	1948	1947
Molasses	19,520,448	9,565,641
Ethyl sulphate	9,117,606	9,986,565
Sulphite liquors	21,544,500	19,731,300
Potato products	.....	.....
Wood sugar liquors	.....	948,124
Other materials	1,317,002	1,375,340
	1948	1947
	Proof gallons	
Products used in redistillation	1,632,000	1,457,326

Aloin—The generally stable price position of most raw materials contributed to the stability governing prices on aloin during the past several weeks. Current demand for the finished product was reported moderate in volume and deliveries were prompt.

Ammonium Benzoate—Demand was, as usual, very good and well maintained at recent levels and the availability of the material continued to be little if any in excess of the requirements of buyers.

Ammonium Bromide—The market was not overly active from the standpoint of new orders but considerable engagement of goods for later delivery accounted for a well maintained movement of current requirements into consuming channels.

Amyl Acetate—The article was little better in supply than it had been for a long time past. Availability of fusel oil has not increased and the consumption of that article had kept the supply very tight to an extent that has held prices firm regardless of the drop in alcohol prices. Market understones continued to be firm throughout the past week.

Antipyrene—Although new production has come into the market, the increase has not loosened the very tight situation that had governed supply for a long period of time. Ultimately that aspect of the supply situation but for the time being at least, buyers find no surplus stocks against which to draw for their prompt needs.

Atropine—It is somewhat curious that prices for raw materials have been declining of late in contrast with the higher and stronger price position developed recently by both atropine alkaloid and sulphate. That strong position remained unchanged during the past week during which demand appeared to be strictly routine in size and kind.

Berberine—It seems a bit odd that known sales of raw material to some producers have been fairly substantial on a to arrive basis within the past month but attempts to restore a firm schedule of quotations on bisulphate, hydrochloride and sulphate of berberine have failed at every attempt.

Bismuth Metal and Salts—Manufacturers need for metal have been well and promptly met for some time past on the basis of completely stable prices. This stability carried over into the position and supply of bismuth salts, the stocks of which more than cover the at present rather routine consuming requirements of the usual buyers.

Butyl Acetate, Alcohol—The new month of July arrived unaccompanied by any lowering of quotations on the fermentation material. Such a development had been considered not unlikely in view of the contraction of present manufacturing requirements of many buyers. Sellers were disposed to await further developments, especially in the field of synthetic resin manufacture, an industry at present experiencing a substantial drop in the consumption of its products.

Calcium Hypophosphite—The market was firm on the basis of that advance effective in the previous trading period. Supply was ample and demand was not too large to affect the availability of material on a prompt delivery basis. Production costs have risen.

Camphor—For the moment, demand has a rather routine characteristic and movement into consumption, especially of powdered USP material, has decreased to seasonal limits. Coverage of Fall and early Winter requirements of both powder and tablets remains an expectation for the late Summer months. Prices showed no change.

Castor Oil—Demand was routine and showed few signs of early expansion from its recently moderate total. However, the market as a whole seemed steadier in view of the recent strengthening of the raw material in the Brazilian market where bean prices now stand at $155 per long ton, f.o.b. shipment port. Britain has been

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a large buyer of beans, operating under the commercial pact recently signed by the two nations. For the time being, United States importers appeared to be holding aloof, possibly in order to permit the British operation to go forward without unduly advancing bean prices. A recent report concerning Brazilian operations stated that castor beans constituted more than 80 percent of the total oil seeds exported by Brazil in 1947.

Arrivals of castor beans last week totaled 31,209 bags, or 4,681,350 pounds, comparing with 36,164 bags or 5,424,600 pounds in the previous week, and 5,169 bags, or 775,350 pounds in the corresponding week of 1947.

Total arrivals since January 1 this year became 678,795 bags, or 101,819,250 pounds, against 889,945 bags, or 133,491,750 pounds, during the corresponding period in 1947.

Cocoa Butter—The stronger market grounds well that recently carried prices to the basis of 96c. to 97c. per pound continued unabated and sellers were disposed to look for a further advance in quotations unless a substantial change shall come in the supply situation.

Codliver Oil—The market was very firm. Much of the oil actually held on spot is under engagement for delivery to consumers as needed during the season of expanding consumption, a season drawing steadily nearer under foreign conditions that do not forecast this oil being available in quantities required or at prices of a more favorable character. European consumption continues to drain foreign stocks.

Corn Syrup—The latest crop report forecasts a very large production of corn this Summer, comparing favorably with the large output in recent years. Unless drought hits the growing areas, the country should groan with corn this Fall.

Diethylstillbestrol — Manufacturers asserted that offerings at less than $320 to $330 per kilo do not originate in other than resale quarters but $300 has been noted in this market on the basis of 5 kilo lots.

Ephedrine—Signs of Fall and early Winter requirements being in the market for coverage have not been lacking of late and the situation as a whole seemed slowly to be coming alive once more. No surplus stock exists in producers' inventories and the trade looks forward to an active and possible strong market in the months ahead.

Emetine—If goods are wanted for export, they may be bought from holders of Brazilian production at prices which domestic manufacturers of this material do not care to meet at this time. It was asserted that stocks have been backing up in Brazil and that country is seeking outlets almost eagerly.

Ethyl Acetate—Most buyers have been expecting a further downward revision of the schedule on fermentation material but to this writing, such a movement has failed to develop although the market was admitted to be one of increasing competition between suppliers.

Fusel Oil—The drop in production of alcohol has been reflected in the supply of this byproduct of distillation. Anything available goes promptly into consumption and the sustained requirements of buyers and manufacturers keeps prices to a relatively strong position.

Glycerin—It seemed likely that less glycerin is being recovered by the soap manufacturers of moderate size. Large refiners who also make soap are recovering according to their normal operations. In the open market, sellers of crude glycerin to refiners have no surplus stocks and those with goods in hand appeared to be not anxious sellers at this time. Stocks of refined material appeared to cope fairly well with demand on its present basis but the refiners do not count their supply as approaching an important surplus and they expect a firm market to govern prices during the weeks ahead at least.

Hydrogen Peroxide—Although quotations on 27½-percent and 35-percent material were advanced in the previous week, sellers of the USP solution continued to quote 3¾c. per pound in barrels.

Menthol—The spot market showed some resistence to buyers' attempts to buy on bids. The market was no lower than

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$9.65 per pound and several directions were not disposed to quote under $9.75 minimum. Not much trading developed in local circles last week.

Methanol—Although the supply situation has improved, the market has held some reports of a further advance in prices, the intimation being that the price of 28c. per gallon in tanks was to be moved upward. However, a check in the proper quarters brought the information that at the moment, no further change is in sight.

Milk Powder—The market had a firming tendency and a disposition toward an advance in prices. Milk production has declined and the decrease brought an increase in the demand for milk for drying. Out of 695,000 pounds of powder offered the Department of Agriculture, 275,000 pounds were bought at 15½c. per pound at Washington and Iowa points. There remain 16,862,260 pounds still to be bought. Purchases made in Wisconsin and Minnesota totaled 400,000 pounds of spray process whole milk powder at 46¼c. to 46½c. f.o.b. production points. A remainder of 4,546,542 pounds of such powder has still to be bought.

Paraldehyde—Routing transactions involved the USP article which was held to a very steady price position in the absence of excess stocks and more than moderate competition between suppliers.

Penicillin—Greater availability at a lower cost to produce resulted in a 2c. drop in quotations on this material. Bulk quantities of one billion lots were priced as follows: Gamorphous, calcium, 11c. to 12c. per 100,000 units; crystals, sodium, 12½c. to 14½c.; procaine penicillin, 15c.

Potassium Hypophosphite—The 5c. per pound price rise noted in the previous period reflected production cost rather than any material change in the demand and supply of this material.

Potassium Glycerophosphite—A routine but very steady market reflected the absence of any change in the basis position of important raw materials.

Procaine Hydrochloride—The increased consumption caused by the development of procaine penicillin continued unabated and kept producers in difficulties fully to meet on a reasonably prompt basis the needs of manufacturing consumers. Prices were firm.

Propyl Alcohol—Makers who claim to produce and sell the larger part of consumer requirements declared last week that stocks of this product were still short of consumer needs and constituted a very tight market situation that can hardly change so long as manufacturing consumer needs stand at their current tonnage. Some contrary reports were recently in circulation.

Michigan Chemical Making Two New Intermediates

Michigan Chemical Corporation, St. Louis, Mich., has commenced full scale production of B-dimethylaminoethyl chloride hydrochloride and betadimethylaminoisopropyl chloride hydrochloride and is offering them for use in pharmaceutical manufacture. The former compound is said to be important in the manufacture of highly effective antihistaminic compounds, and the latter is being offered for the manufacture of analgesics. Both compounds are said to be made to strict specifications and in grades and purity suitable for pharmaceutical manufacture.

Kesser Joins Vitarine Co.

Julius Kesser, former vice-president of the Drug Products Company, has joined the executive staff of the Vitarine Company, subsidiary of the Laxseed Company, New York. Mr. Kesser's principal duties will be the development of the business of the Vitarine Company and the promotion and development of new accounts.

He was one of the organizers of the Purity Drug Company in 1933, and became associated with the Drug Products Company when it merged with Purity Drug in 1945. Prior to the organization of Purity Drug, he was sales manager of the pharmaceutical department of Brewer & Co., Worcester, Mass.

Trade Briefs

McKesson & Robbins, Inc., New York, is currently constructing a new drug and liquor warehouse in Miami, Fla.

Lee H. Bristol, executive vice-president of Bristol-Myers Company, New York, has been given an award in recognition of his work as coordinator of the United American Campaign of the Advertising Council, Inc.

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John Powell & Co. Completes 25th Year

John Powell & Co., manufacturer of basic materials for the insecticide and allied industries, New York, celebrated its twenty-fifth anniversary on July 1, which was also the birthday of its founder, John Powell. Part of the anniversary celebration was devoted to tracing the history of the company from its establishment as an importer and dealer in crude drugs and botanicals to its present position as a world wide organization.

It was noted that the company was one of the first to specialize in pyrethrum insecticides, and is still one of the largest figures in this branch of the industry. Expansion into the field of other botanicals and synthetic organic chemicals has occurred through the company's life, and it was also noted that its entomological testing laboratory has been responsible for important developments in the insecticide field.

Nopco Appoints Gavin To N.E. Sales Post

Nopco Chemical Company, Harrison, N. J., has appointed William J. Gavin to the New England sales force of its industrial division and of its subsidiary, Metasap Chemical Company. He succeeds Joseph E. Connell on the New England force, and will cover northeastern Massachusetts, Maine and eastern New Hampshire.

Prior to his appointment Mr. Gavin was associated with the company's Cedartown, Ga., plant. At that plant he was engaged in the manufacture, control and application of the company's line of processing chemicals and metallic soaps.

Du Pont W. Va. Plant Sets New Safety Record

E. I. du Pont de Nemours & Co., Wilmington, Del., has presented safety awards to the construction staff of its Belle, W. Va., plant, in recognition of a new world safety record for construction established by the staff. The recipients of the award completed more than 3,600,000 hours without a disabling injury.

Trade Briefs

Drugs and medicines have received an allocation of £20,000 for import into the island of Cyprus from the western hemisphere during 1948.

Penicillin plant under the control of the World Health Organization will be built at the Korean port of Kachsiung, according to a recent report.

St. Louis College of Pharmacy students were recently taken on a tour of the pharmaceutical manufacturing plant of William R. Warner & Co.

Dr. Joseph Tait, long active on the staff of the British Pharmaceutical Society and its resident secretary in Scotland since 1936, is retiring July 31. He is quitting also the secretaryship of the General Council of Panel Chemists in Scotland.

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APMA Names Several New Committee Heads

The American Pharmaceutical Manufacturers Association has appointed Dr. John C. Bird, of Lederle Laboratories Division, American Cyanamid Company, chairman of the eastern section of its scientific committee. Dr. Frederick Yonkman, of Ciba Pharmaceutical Products, Inc., has been named vice-chairman of the section.

The central and western section of the scientific committee is headed by Dr. Robert S. Shelton, of William S. Merrell & Co., with Sereck H. Fox, of the Gelatin Products Division, R. P. Scherer Corporation, as vice-chairman. Dr. Robert K. Cutter, of Cutter Laboratories, Inc., has been named chairman of the association's legislative committee.

Nutrition Research Laboratory Liquidated at Auction

The laboratory of the American Institute for Nutritional Research, 305 East Forty-sixth street, New York, has been closed. The equipment was disposed of piecemeal at an auction July 8.

The laboratory was engaged in various activities in the field of nutrition, including the production of histidine and other amino acids. It was located in the same building and on the same floor as the Sowa Chemical Company, a consulting development and research organization operated by Frank J. Sowa, Ph. D. There was no connection between the two organizations, but the liquidation of the institute's laboratory has caused some confusion. The Sowa Chemical Company is still operating.

Fish Processing Plant Damaged by Explosion

The Seattle, Wash., fish processing plant of the Lyle Branchflower Company, vitamin producer, was seriously damaged by an explosion last week which killed two people and injured at least one more. The explosion occurred after the plant's workers had left for the day, leaving only a staff of watchmen on duty. The amount of damage to the plant could not be immediately estimated.

Radioisotopes Study

—Continued from page 3

either methyl or methylene group), ethyl alcohol (methyl or methylene), ethyl acetate (methyl or carboxyl), acetylene, acetic acid (methyl or carboxyl), potassium pyruvate (carbonyl), biologically synthesized glucose - fructose, glycine (methyl or carboxyl), acetyl chloride, sodium cyanide, sodium formate, sodium acetate (methyl or carboxyl), sodium propionate (methyl, methylene, or carboxyl) and carboxyl-labeled sodium butanate, pentanoate, hexanoate, and heptanoate. Radioactive gold in the form of colloidal gold and aurothiosulphate is also available for therapeutic use.

It is expected that an additional group of carbon 14 labeled compounds will be available within the next six months. Among these are formaldehyde, formic acid, acetaldehyde, ethylene dichloride, acetone, stearic acid, malonic ester, benzene, toluene, diazomethane, ethylene oxide, steroid hormones, phthalic acid, testosterone, methylamine, alanine, propionic acid, lactic acid, and chloroacetic acid.

Normal Patenting Practices

Inventions or discoveries made by persons using radioisotopes or using or manufacturing isotope-labeled compounds will be subject to patenting by the inventor in accordance with normal industrial practices. The commission does not contemplate the reservation of patent rights to inventions and discoveries made by distributees who receive radioactive materials pursuant to the commission's regular program of radioisotope distribution.

The users of radioactive isotopes or isotope-labeled compounds will be required to meet the safety and health standards that are established from time to time by the commission. They also will be required to publish or report the significant results of investigations using radioactive materials, but these reporting requirements will be applied so as not to interfere with an inventor's opportunity to obtain patent protection for his inventions and discoveries.

Persons interested in obtaining these or other labeled materials should address inquiries to the isotopes division, Atomic Energy Commission, Post Office Box E, Oak Ridge, Tenn.

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R.Kay-New York, Ltd. Absorbs Chemical Div.

R. Kay-New York, Ltd., has absorbed the chemical-pharmaceutical division of the American M. O. T., Inc., and will carry on the combined activities from its offices at 60 Board street, New York. Miss Irene D. Brown, formerly vice-president of American M. O. T., Inc., has been elected a vice-president of R. Kay-New York, Ltd., and will continue her work in the chemical field.

Emulsol Corp. Appoints Klein Iowa, Neb. Agent

The Emulsol Corporation, Chicago, has appointed Eugene L. Klein representative in the states of Iowa and Nebraska for the sale of its detergents, emulsifiers, quaternary ammonium bases and other surface-active developments. Mr. Klein's firm, the Vulcan Sales Company, of 7414 Jaboe street, Kansas City, Mo., is representative of the Emulsol Corporation in western Missouri, Kansas and eastern Oklahoma.

Norwich Pharmacal Shifts Western Headquarters

Norwich Pharmacal Company, Norwich, N. Y., has moved its western division headquarters from San Francisco to 4900 District boulevard, Los Angeles, Calif. The company is currently completing a building at that location which will be occupied by the western division and by its subsidiary, Eaton Laboratories.

Turk Gets Armed Forces Chemical Association Post

Richard H. Turk, president of Pemco Corporation, Baltimore, Md., has been elected second vice-president and chairman of the finance committee of the Armed Forces Chemical Association. Mr. Turk is a past president of the Porcelain Enamel Institute.

MCA Moves Office

The Manufacturing Chemists Association has moved its Washington office to larger quarters in the Woodward building to provide more space for its expanded staff. The new address of the association is suite 246 of the Woodward building, Fifteenth and H streets, Washington 5, D. C.

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Obituaries

Dr. Clarence W. Balke

Dr. Clarence W Balke, retired research director of the Fansteel Metallurgical Company, North Chicago, Ill., who was prominent in the development of tantalum and who assisted in the atomic bomb project, died July 8 at his home near Chicago. He was sixty-eight years old.

In January of this year Dr. Balke had been awarded the Perkin medal of the American section of the Society of Chemical Industry for his research in chemistry and metallurgy which led to the development for commercial utilization of tantalum and columbium. While with the Fansteel Metallurgical Company, from which he retired in 1946, he assisted in the atomic bomb project, supervising the production of special materials in the company's laboratories.

Albert J. Browning

Albert J. Browning, vice-president in charge of purchasing of the Ford Motor Company and wartime director of purchases for the Army Service Forces, died July 2 in Henry Ford hospital, Detroit, Mich. He was forty-seven years old.

Following his wartime service Mr. Browning had been appointed director of the Office of Domestic Commerce, Department of Commerce, from which position he joined the Ford organization. At one time in his career he was associated with the Sherwin-Williams Company in Los Angeles and Detroit.

Donald F. Cranor

Donald F. Cranor, head of the research and development laboratory of the Binney & Smith Company, New York, sales agent for the Columbian Carbon Company, died July 3 in Paris, France. He was fifty-eight years old. He had sailed to England in June to deliver a paper before the Rubber Technology Conference in London.

Mr. Cranor joined the staff of Binney & Smith in 1923 and was responsible for setting up the first research and development laboratory in the carbon black industry. He was credited with being largely responsible for the ever-widening knowledge of the use and applications of carbon black and was an acknowledged authority in this field.

Prior to joining the Binney & Smith organization he had been technical superintendent of the Lee Rubber & Tire Company, Conshohocken, Pa.

William F. Siemon

William F. Siemon, founder and retired president of Siemon Colors, Inc., pigment manufacturer, Newark, N. J., died July 8 at his home in that city. He was seventy-eight years old. Mr. Siemon founded the concern in 1903 and retired two years ago.

Dr. Eli F. Burton, head of the department of physics at the University of Toronto, Canada, died July 6. He was sixty-nine years old. Dr. Burton, who had been a member of the university faculty since 1901, aided in the development of the colloidal arsenic treatment for cancer.

Robert R. Green, retired salesman of the Watkins Medical Company, died July 7 of a heart attack suffered while walking on the street near his home in New Rochelle, N. Y. He was seventy-nine years old.

Agner B. Hansen, president, general manager and a director of Northern Paper Mills, Green Bay, Wis., died July 4. He was fifty-two years old. Mr. Hansen, who had been head of the company for twelve years, was deputy director for pulpwood of the War Production Board during the recent war.

Dr. Charles T. Knipp, emeritus professor of physics at the University of Illinois, died July 6 at the home of his daughter in Denton, Tex. He was seventy-eight years old.

Romuald J. Lewis, office manager of the Durex Abrasives Corporation, New York, died recently in Kew Gardens General hospital, Queens, N. Y. He was fifty years old.

Bernard D. Rubin, president of the Sweets Company of America, candy and grocery products manufacturer, New York, died last week in that city. He was fifty-five years old. Mr Rubin had been a director of the firm since 1935 and its president since 1936.

Ciba Buys Building

Ciba Pharmaceutical Products, Inc., Summit, N. J., has purchased a six-story building adjoining its property at 627 Greenwich street, New York.

Sulphur Recovery Plant Planned for Wyoming

An arrangement has been completed between the Pure Oil Company and the Texas Gulf Sulphur Company for the installation of a sulphur recovery plant in the former's new field at Worland, Wyo. The plant, scheduled for completion and operation next year, will be capable of processing a minimum of 30,000,000 cubic feet of gas a day containing more than 10,000,000 cubic feet of hydrogen sulphide, from which sulphur will be converted.

Westvaco Stockholders To Vote on Merger Plan

Stockholders of Westvaco Chemical Corporation will meet September 2 to vote on an agreement to merge the company into Food Machinery Corporation. At that time, shareholders of record of July 16 will be entitled to vote on the plan which was approved by Westvaco's board of directors last week.

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729 RIDGE ROAD WEST, ROCHESTER 13, N. Y.

570 Lexington Ave., New York 22, N. Y. — 189 South LaSalle St., Chicago 3, Illinois — Gillies & Laughlin, Los Angeles and San Francisco — Charles Albert Smith, Ltd., Montreal and Toronto

Imports at United States Ports

New York Imports

ALDER BARK—925 bgs, Amtorg Trading Co, Rena, Leningrad
AMYRIS OIL—3 dms, Polak & Schwartz, Inc, Bresle, Port Au Prince
ANILIN COLORS—15 dms, Sandoz Chemical Co, President Monroe, Genoa
ANISEED—200 bls, E Meer Corp, Pioneer Lake, Hongkong
OIL—10 dms, T M Duche & Sons, Pioneer Lake, Hongkong
ARABIC GUM—250 bgs, William M Allison & Co, Coral Sea, Rotterdam
ARGOLS—4 bgs, Exceller, Tangier
ARSENIC, WHITE—1,000 bgls, Amtorg Trading Co, Rena, Leningrad
ASBESTOS FIBER—1,760 bgs, Johns Manville Co, Selma Victory, Beira
2,720 bgs, United States Asbestos Co, Selma Victory, Beira
BARBASCO ROOT—1,116 bls, R J Prentiss & Co, Mormacpine, Belem Para
BEEF GLANDS—279 bxs, International Packers Commercial Co, Loide Venezuela, Rio Grande
BEESWAX—312 bgs, Bank of New York, Loide Venezuela, Porto Alegre
26 bgs, Machado Co, Jean, Sanchez
16 bgs, Machado Co, Jean, Ciudad Trujillo
12 bgs, D Steengrafe Co, Maipo, Santiago
59 bgs, Will & Baumer Candle Co, Maipo, Santiago
131 bgs, Prager Credit Bank, Hellenic Sky, Istanbul
38 bgs, Bresle, Port Au Prince
60 bgs, Koster & Keunen Mfg Co, Mormacpine, Porto Alegre
36 bgs, Poons & Co, Coastal Messenger, Port Au Prince
23 bgs, Wessels, Kulenkampff Co, Borinquen, Trujillo
10 bgs, Schutte & Focke Co, Borinquen, Trujillo
18 bgs, Geck Trading Co, Borinquen, Trujillo
22 bgs, General Import Co, Agwiking, Havana
BERGAMOT OIL—10 cs, National City Bank, Alma Victory, Messina
4 cs, Brown Bros-Harriman Co, Alma Victory, Messina
BLUE BALL CLAY—50 tons, Moore & Munger, Gloucester City, Bristol
200 tons, United Clay Mines, Gloucester City, Bristol
100 tons, Paper Makers Import Co, Gloucester City, Bristol
BONE GLUE—300 bgs, Transatlantic Animal By-Products Co, Mormacpine, Rio Grande
CAMPHOR OIL—25 dms, R J Prentiss & Co, Pioneer Lake, Kobe
156 dms, Orbis Products Co, Pioneer Lake, Kobe
5 dms, George Lueders & Co, Pioneer Lake, Kobe
CANARY SEED—275 bgs, Stein Trading Co, Exceller, Casablanca
264 bgs, Louis Furth Co, Exceller, Casablanca
264 bgs, Willets & Co, Exceller, Casablanca
264 bgs, Hismoso American Co, Exceller, Casablanca
150 bgs, Wagner Bros, Exceller, Casablanca
243 bgs, Ludwig Mueller Co, Exceller, Casablanca
102 bgs, Rene Moelhausen Co, Exceller, Casablanca
CARAWAY SEED—200 bgs, Louis Furth, Inc, Coral Sea, Rotterdam
100 bgs, C M Silleyboldt Co, Coral Sea, Rotterdam
100 bgs, Creighton Victory, Rotterdam
CARNAUBA WAX—23 bgs, Alf Lindenberg, Rio de Janeiro
189 bgs, Wessel, Duval & Co, Mormacpine, Fortaleza
22 bgs, Stein, Hall Co, Mormacpine, Fortaleza
112 bgs, Chase National Bank, Mormacpine, Fortaleza
22 bgs, Innis, Speiden Co, Mormacpine, Fortaleza
44 bgs, William M Allison Co, Mormacpine, Fortaleza
159 bgs, Cornelius Products Co, Mormacpine, Fortaleza
CASEIN—3,000 bgs, New York Trust Co, Campero, Buenos Aires
100 bgs, Paul & Stein Co, Campero, Buenos Aires
260 bgs, J Henry Schroder Co, Campero, Buenos Aires
CASSIA—100 bls, R J Spitz Co, Pioneer Lake, Hongkong
100 bls, Arthur G Dunn Co, Pioneer Lake, Hongkong
50 bls, Geo Uhe Co, Pioneer Lake, Hongkong
CASTORBEANS—2,570 bgs, Baker Castor Oil Co, Loide Venezuela, Bahia
3,387 bgs, Guaranty Trust Co, Loide Venezuela, Santos
5,100 bgs, Baker Castor Oil Co, Loide Venezuela, Santos
3,454 bgs, Sherwin Williams Co, Eidanger, Santos
1,727 bgs, Baker Castor Oil Co, Eidanger, Santos
735 bgs, Brown Bros-Harriman Co, Bresle, Cape Haitien
780 bgs, Spencer Kellogg Co, Mormacpine, Fortaleza
2,380 bgs, Sherwin Williams Co, Mormacpine, Bahia
3,400 bgs, Baker Castor Oil Co, Mormacpine, Bahia
6,800 bgs, Sherwin Williams Co, Mormacpine, Bahia
887 bgs, Spencer Kellogg & Sons, Coastal Messenger, Port Au Prince
CAUSTIC SODA—500 dms, United Fruit Co, Mohamed Ali El Kebir, Genoa
CELERYSEED—175 bgs, Geo Lueders & Co, President Monroe, Bombay
172 bgs, Arthur G Dunn Co, President Monroe, Bombay
33 bgs, Knickerbocker Mills Co, President Monroe, Marseilles
CHINA CLAY—250 tons, United Clay Mines, Gloucester City, Bristol
CHROME ORE—1,997 tons, Vanadium Corp of America, Selma Victory, Beira
CINCHONA BARK—41 bgs, Santa Maria, Callao
CINNAMON—100 bls, Lo Curto & Funk Co, President Monroe, Genoa
COCOA LEAVES—120 bls, Maywood Chemical Co, Santa Luisa, Salaverry
CODLIVER OIL—9 dms, Silmo Chemical Co, Fort Amherst, St Johns
882 dms, American Shipping Co, Trollafoss, Reykjavik
1,030 dms, Bankers Trust Co, Trollafoss, Reykjavik
1,584 dms, Theodore B Smith Co, Trollafoss, Reykjavik
COPAL GUM—28 bgs, Gillespie-Rogers-Pyatt Co, President Monroe, Singapore
300 bgs, Fidelity Union Trust Co, Bastogne, Antwerp
100 bgs, A J Wittenberg Corp, Bastogne, Antwerp
100 bgs, U S Industrial Chemical Co, Bastogne, Antwerp
109 baskts, Catz American Co, Steel Architect, Macassar
910 baskts, O G Innes Co, Steel Architect, Macassar
CORIANDER SEED—222 bgs, Levys Trading Co, Exceller, Casablanca
COTTON LINTERS—1,645 bls, First National Bank of Chicago, Rena, Leningrad
COTTONSEED MEAL—1,845 bgs, Wessel, Duval & Co, Coastal Messenger, Port Au Prince
CREAM OF TARTAR—100 bls, F H Taussing Co, President Monroe, Genoa
CRESYLIC ACID—263 dms, Guaranty Trust Co, Gloucester City, Bristol
154 dms, Chematar, Inc, Coral Sea, Antwerp
92 dms, Chematar, Inc, Topa Topa, Antwerp
77 dms, Royal Bank of Canada, Union Victory, Rotterdam
66 dms, Medla, Liverpool
225 dms, H A Gogarty Co, Medla, Liverpool
CYANIDE PRECIPITATE—15 cs, Irvington Smelting &Refining Works, Santa Luisa, Puna
8 cs, American Metal Co, Santa Maria, Puna
DAMMAR GUM—50 cs, O G Innes Corp, President Monroe, Singapore
704 bgs, S Winterbourne Co, President Monroe, Singapore
DERRIS ROOT—93 bls, R J Prentiss & Co, Pioneer Lake, Cebu
DEXTRIN—101 bgs, Creighton Victory, Rotterdam
DIVI DIVI—1,156 seroons, M E Schoen Corp, Jean, Ciudad Trujillo
DYESTUFFS—150 dms, Wah Chang Trading Co, President Monroe, Shanghai
17 dms, Public National Bank & Trust Co, Media, Liverpool
16 dms, National City Bank of N Y, Media, Liverpool
EARTH PAINT—1,679 bgs, Reichard Coulston Co, Exchester, Cyprus
ESSENTIAL OILS—33 cs, Dodge & Olcott Co, Alma Victory, Catania
FENNEL SEED—84 bgs, E Meer Corp, President Monroe, Bombay
FENUGREEK SEED—168 bgs, R J Prentiss Co, President Monroe, Bombay
FLEASEED—350 bgs, T M Duche & Sons, President Monroe, Bombay
200 bgs, Parke Davis & Co, President Monroe, Bombay
323 bgs, S B Penick & Co, President Monroe, Bombay
244 bgs, R J Prentiss & Co, President Monroe, Bombay
FUEL OIL—103,000 bbls, Esso Export Co, Esso Raleigh, Aruba
103,000 bbls, Esso Export Co, Esso Chattanooga, Aruba
105,000 bbls, Esso Export Co, E A Mowinckel, Aruba
GERANIUM OIL—1 cs, French American Bank, President Monroe, Marseilles
GHATTI GUM—57 bgs, Innis, Speiden Co, President Monroe, Bombay
114 bgs, Paul A Dunkel & Co, President Monroe, Bombay
GINGER—1,079 bgs, Galgary, Lagos
GRAPHITE—500 bgs, Asbury Graphite Mills, President Monroe, Colombo
750 bgs, J Dixon Crucible Co, President Monroe, Colombo
GYPSUM, CRUDE—6,593 tons, National Gypsum Co, Sewalls Point, Breton
2,087 tons, Newark Plaster Co, Buckeye State, Waston
7,996 tons, National Gypsum Co, Russell A Alger, Dingwall
10,356 tons, United States Gypsum Co, Gypsum Queen, Hantsport
HENNA LEAVES—24 bls, Corn Exchange Bank, Hav, Alexandria
56 bls, Irving Trust Co, Hav, Alexandria
52 bls, Brown Bros, Harriman Co, Hav, Alexandria
IRISH MOSS—550 bls, Marine Midland Trust Co, Union Victory, Rotterdam
KARAYA GUM—648 bgs, Innis, Speiden & Co, President Monroe, Bombay
66 bgs, Thurston & Braidich, President Monroe, Bombay
57 bgs, Nehemia & Sons, President Monroe, Bombay
184 bgs, Paul A Dunkel & Co, President Monroe, Bombay
134 bgs, Dodwell & Co, President Monroe, Bombay
LIME OIL—15 dms, 1 csk, George Uhe Co, Exceller, Marseilles
1 dm, Aristide Petoia Co, Bresle, Port-au-Prince
LEMON OIL—100 cs, Bank of Manhattan Co, Loide Venezuela, Santos
200 cs, Brown Bros-Harriman Co, Alma Victory, Messina
LEMONGRASS OIL—6 dms, Givaudan-Delawanna, Inc, Bresle, Port au Prince
6 dms, Trubeck Laboratories, Inc, Bresle, Port au Prince
LIQUID AMBAR—1 dm, Fritzsche Bros, Yaque, Puerto Cortez
LIVER TANKAGE—298 bgs, Armour & Co, Campero, La Plata
166 bgs, Mormacpine, Puerto Alegre
398 bgs, Armour & Co, Alf Lindenberg, Buenos Aires
MACE—34 cs, Otto Gerdau & Co, Steel Architect, Macassar
63 cs, Arthur G Dunn Co, Steel Architect, Macassar
20 cs, Karl Landes Co, Steel Architect, Macassar
27 cs, Knickerbocker Mills Co, Steel Architect, Macassar
MAGNESIA CARBONATE—25 cs, Lo Curto & Funk Co, Media, Liverpool
MICA—24 cs, Central Hanover Bank, Alf Lindenberg, Rio de Janeiro
63 cs, Cosmopolitan Trading Co, Alf Lindenberg, Rio de Janeiro
16 blocks, Cosmopolitan Trading Co, Alf Lindenberg, Rio de Janeiro
MOLASSES—1 bulk lot, Standard Brands, Santa Luisa, Salaverry
1,198,422 gals, Cuba Distilling Co, Dean, Havana
457,200 kilos, Standard Brands, Santa Maria, Salaverry
MUSTARD SEED—320 bgs, Fort Miami, London
MYROBALANS—440 bgs, Barkey Importing Co, President Monroe, Bombay
1,600 bgs, Hammond & Carpenter, President Monroe, Bombay
NAPHTHALENE—1,000 bgs, Bolivia, Copenhagen
1,666 bgs, Chase National Bank, Norwalk Victory, Rotterdam
1,000 bgs, Fallek Products Co, Coral Sea, Antwerp
1,000 bgs, American Cyanamid Co, Union Victory, Antwerp
NUTMEGS—70 bgs, Avia Co, Hendonhall, Singapore
70 bgs, Hendonhall, Singapore
70 bgs, Arthur G Dunn Co, Steel Architect, Singapore
30 bgs, American East Asiatic Trading Co, Steel Architect, Singapore
97 bgs, Holland Colombo Trading Co, Steel Architect, Singapore
OLIBANUM GUM—100 bgs, Tragacanth Importing Co, President Monroe, Bombay
OLIVE OIL—1,650 cs, Beroho Import Co, President Monroe, Leghorn
250 cs, S M Sartori, President Monroe, Leghorn
50 cs, Capital Wholesale Grocery Co, President Monroe, Leghorn
200 cs, G Sclafani Co, President Monroe, Leghorn
100 cs, D Kelman, President Monroe, Leghorn
75 cs, Marino Bros, President Monroe, Leghorn
500 cs, Samuel Kirsch, President Monroe, Leghorn
420 cs, F Alessio, President Monroe, Leghorn
250 cs, A Fantis, President Monroe, Leghorn
240 cs, M De Rosa, President Monroe, Genoa
50 cs, Paladino Oil Co, President Monroe, Genoa
25 cs, G Cresci, Exceller, Genoa
50 cs, Anthony Gilento, Exceller, Genoa
300 cs, Exceller, Genoa
250 cs, J Ossola, Exceller, Genoa
134 cs, Irving Trust Co, Exceller, Seville
50 cs, Manufacturers Trust Co, Exceller, Seville
25 dms, Chemical Bank & Trust Co, Exceller, Seville
49 dms, Uddo & Taormina Co, Exceller Casablanca
98 dms, Mawer-Sluden-Annis Co, Exceller, Casablanca
23 dms, Aroma Food Corp, Exceller, Casablanca
39 dms, Gus Sclafani Co, Exceller, Casablanca
97 dms, Venice Import Co, Exceller, Casablanca
737 dms, Bonoil Packing Co, Exceller, Casablanca
367 dms, J Ossola, Exceller, Casablanca
187 dms, Strohmeyer I Arpe, Exceller, Casablanca
250 dms, Balbo Oil Corp, Exceller, Casablanca
160 dms, J Henry Schroder, Exceller, Casablanca
OLIVE OIL—21 dms, J Alban, Exceller, Casablanca
100 dms, Parodi Erminio, Exceller, Casablanca
185 dms, G E Ar Packing Co, Exceller, Casablanca
30 dms, Gus Sclafani, Hellenic Sky, Piraeus
35 dms, Import Oil Co, Hellenic Sky, Piraeus
50 dms, Jos L Sclagani, Hellenic Sky, Piraeus
29 dms, Schroder Bros, Alma Victory, Piraeus
75 cs, Public National Bank, Alma Victory, Palermo
25 cs, Alma Victory, Palermo
100 cs, Exchester, Palermo
ORRIS ROOT—33 bgs, R J Prentiss & Co, President Monroe, Leghorn
OURICURY WAX—144 bgs, Innis, Speiden & Co, Mormacpine, Bahia
PALMAROSA OIL—1 pot, Dodge & Olcott & Co, President Monroe, Bombay
PAPRIKA—150 bgs, J Raphel Son, Exchester, Lisbon
100 bgs, Archibald Kendall, Inc, Exchester, Lisbon
GRAINS OF PARADISE—18 bgs, W E Martin Co, Exceller, Marseilles
PEPPER, BLACK—168 bgs, Prenkel International Co, President Monroe, Genoa
76 bgs, Union Victory, Rotterdam
480 bgs, Lo Curto & Fuuk Co, Union Victory, Rotterdam
312 bgs, Arthur G Dunn, Veendam, Rotterdam
420 bgs, Internatio Rotterdam, Veendam, Rotterdam
500 bgs, Polak Trading Co, Steel Architect, Singapore
WHITE—350 bgs, Internatio Rotterdam, Veendam, Rotterdam
PETITGRAIN OIL—2 dms, P R Dreyer, Inc, Bresle, Port au Prince
4 dms, P R Dreyer, Inc, Coastal Messenger, Port au Prince
1 dm, Lautier Fils, Inc, Coastal Messenger, Port au Prince
16 dms, P R Dreyer, Inc, Campero, Buenos Aires
28 cs, P R Dreyer, Inc, Campero, Buenos Aires
10 cs, George Lueders & Co, Campero, Buenos Aires
PETROLEUM, CRUDE—110,416 bbls, Esso Standard Oil Co, Spirit of Liberty, Cartagena
117,088 bbls, Imperial Oil Co, Ltd, Gervais, Puerto La Cruz
125,829 bbls, Esso Standard Oil Co, Esso New Haven, Puerto La Cruz
125,281 bbls, Socony-Vacuum Oil Co, Samoset, Puerto La Cruz
POPPYSEED—432 bgs, Noah Brown, Istanbul
300 bgs, Marine Midland Trust Co, Noah Brown, Istanbul
134 bgs, Public National Bank, Noah Brown, Istanbul
200 bgs, Chase National Bank, Noah Brown, Istanbul
100 bgs, Bank of Nova Scotia, Noah Brown, Istanbul
200 bgs, National City Bank, Hellenic Sky, Istanbul
200 bgs, Joel Bickler Export-Import Co, Hellenic Sky, Istanbul
66 bgs, J Graf Co, Alma Victory, Istanbul
50 bgs, Interport Commercial Co, Coral Sea, Rotterdam
100 bgs, Veendam, Rotterdam
PUMICE, POWDERED—1,018 bgs, K F Griffiths Co, Alma Victory, Linari
1,963 bgs, Chas B Chrystal Co, Alma Victory, Linari
9,325 bgs, J H Rhodes Co, Alma Victory, Linari
QUEBRACHO EXTRACT—2,500 bgs, International Products Co, Alf Lindenberg, Buenos Aires
2,410 bgs, International Products Co, Campero, Buenos Aires
QUICKSILVER—700 flasks, Leghorn Trading Co, President Monroe, Leghorn
500 flasks, Metal Traders Co, Pioneer Wave, Kobe
950 flasks, W R Grace & Co, Emilie Maersk, Rotterdam
1,600 flasks, W R Grace & Co, Monte Negro, Santander
ROSEMARY OIL—11 cks, George Uhe Co, Exceller, Marseilles
SANDALWOOD—100 bgs, George Lueders & Co, President Monroe, Bombay
SAGO FLOUR—553 bgs, Stein, Hall & Co, Steel Architect, Singapore
SEEDLAC—254 bgs, Gillespie-Rogers-Pyatt Co, Steel Architect, Bangkok
SESAME SEED—5 bgs, Ludwig Mueller, Alma Victory, Istanbul
SHELLAC—5 bgs, J Berlage Co, President Monroe, Bombay
300 bgs, Irvington Trust Co, Steel Architect, Bangkok
75 bgs, Getz Import Co, Steel Architect, Bangkok
638 bgs, Steel Architect, Bangkok
134 bgs, William Zinsser & Co, Steel Architect, Bangkok
68 bgs, Schwab Bros Corp, Steel Architect, Bangkok
280 bgs, J Henry Schroder Co, Steel Architect, Bangkok
75 cs, Steel Architect, Bangkok
SOAPBARK—127 bls, Duncan Fox Co, Maipo, Valparaiso
291 bls, S B Penick & Co, Maipo, Valparaiso
309 bls, Duncan Fox Co, Maipo, San Antonio
239 bls, Balfour, Guthrie & Co, Maipo, San Antonio
58 bls, Duncan Fox Co, Maipo, Talcahuano
SODIUM POTASSIUM CYANIDE—400 dms, Media, Liverpool
STICKLAC—483 bgs, Irving Trust Co, Steel Architect, Bangkok
STRONTIA—862 tons, E I du Pont de Nemours & Co, Gloucester City, Bristol
TALC—325 bgs, C Mathieu Inc, Exceller, Genoa
THYME—140 bgs, Seeke & Kade Co, President Monroe, Marseilles
13 bgs, Knickerbocker Mills Co, President Monroe, Marseilles
50 bgs, Arthur G Dunn Co, Exceller, Marseilles
100 bgs, Seeke & Kade Co, Exceller, Marseilles
TRAGACANTH GUM—100 bgs, Innis, Speiden & Co, President Monroe, Genoa
125 bgs, Stein, Hall & Co, President Monroe, Genoa
175 bgs, Paul A Dunkel & Co, President Monroe, Genoa
30 bgs, William M Allison & Co, Exchester, Cyprus
60 bgs, Stein, Hall & Co, Exchester, Cyprus
600 bgs, Stein, Hall & Co, American Miller, Antwerp
TUNG OIL—227 tons, National City Bank, Pioneer Lake, Hongkong
100 tons, Universal Trading Co, Pioneer Lake, Hongkong
TURMERIC—150 bgs, Gillespie & Co, Coastal Messenger, Kingston
120 bgs, Otto Gerdau & Co, President Monroe, Cochin
UREA—2,000 bgs, J Henry Schroder Co, Exceller, Genoa
2,000 bgs, American Union Transport Co, American Miller, Antwerp
1,667 bgs, Gondrand Bros, American Miller, Antwerp
4,351 bgs, Kauders & Co, Creighton Victory, Rotterdam
VALONIA—7,920 bgs, Barkey Importing Co, Noah Brown, Izmir
10,774 bgs, Barkey Importing Co, Hav, Izmir
VANADIUM ORE—4,900 bgs, Vanadium Corp of America, Santa Luisa, Callao
VANILLA BEANS—18 cs, Exceller Marseilles
22 cs, George Uhe Co, Exceller, Marseilles
VETIVERT OIL—1 dm, E Quibell Co, Steel Architect, Singapore
WHITING—300 bgs, H J Baker & Bro, Gloucester City, Bristol
YLANG YLANG—1 csk, Dodge & Olcott & Co, President Monroe, Marseilles

Boston

OLIVE OIL—25 lms, Aryenys Co, Exceller, Casablanca
75 dms, C Pappas Co, Alma Victory, Piraeus
5 dms, Geo Thompson Co, Alma Victory, Piraeus
QUEBRACHO EXTRACT—2,940 bgs, International Products Co, Campero, Buenos Aires

Baltimore

ASBESTOS FIBER—1,600 bgs, General Asbestos & Rubber Co, Selma Victory, Beira
CHROME ORE—2,708,530 kilos, Heilenic Sky, Bandirma
3,003 tons, General Refractories Co, Pioneer Lake, Masinloc
3,509 tons, E J Lavino Co, Selma Victory, Beira
OLIVE OIL—100 dms, Exceller, Seville
QUEBRACHO EXTRACT—8,284 bgs, National Shawmut Bank of Boston, Campero, Buenos Aires

Norfolk

IRISH MOSS—400 bls, Marine Midland Trust Co, Creighton Victory, Rotterdam
UREA—5,000 bgs, American Union Transports, Amer-Victory, Rotterdam

Philadelphia

BONE GRIST—10,269 bgs, Philadelphia National Bank, Campero, Rosario
CANARYSEED—159 bgs, Transatlantic Commodities Corp, Exceller, Casablanca
CHROME ORE—1,950 tons, E J Lavino Co, Selma Victory, Beira
GLYCERIN—375 dms, Harshaw Chemical Co, Pioneer Lake, Manila
JUNK BONES—12,961 bgs, Phillip Bros, Exceller, Tripoli
QUICKSILVER—250 flasks, W R Grace & Co, Emilie Maersk, Rotterdam
UREA—5,000 bgs, American Union Transports, American Miller, Antwerp

San Francisco

BLACK DYE—5 dms, The Legin Corp, Lighting, Kobe
CASEIN—182 bgs, Herbert Co, Seafarer, Buenos Aires
CASSIA—200 bls, H M Newhall Co, Sea Serpent, Hongkong
CELERYSEED—80 bgs, H M Newhall Co, Limburg, Bombay
CINNAMON QUILLS—53 bls, W R Grace & Co, Limburg, Colombo
COPRA—500 tons, El Dorado Oil Works, California Bear, Cebu
NUTMEGS—101 cs, Holland Colombo Trading Co, Limburg, Singapore
OITICICA OIL—997 dms, Pacific Vegetable Oil Co, Seafarer, Paranagua
PEPPER, BLACK—240 bgs, Otto Gerdau & Co, Limburg, Cochin
240 bgs, F C Ireland Co, Limburg, Cochin
SESAME SEED—112 bgs, D Hecht Co, Sea Serpent, Hongkong
TEASEED OIL—350 dms, Leghorn Trading Co, Sea Serpent, Hongkong
50 dms, Arnhold Co, Sea Serpent, Hongkong
TURMERIC FINGERS—80 bgs, Wallace Bros, Limburg, Cochin
WOOD OIL—100 dms, D Hecht & Co, Contest, Hongkong

Agricultural Chemicals

—Continued from page 45

in prepared product to Argentina during 1948.

DDT—It is stated seasonal demand for this insecticide has passed its peak. Producers' inventories have been reduced and the market has been brought into a better state of balance with prices showing more stability at the recent advance. The Department of Commerce states that the Egyptian government is interested in establishing a plant in Egypt to produce approximately 3,000,000 pounds of various DDT compounds a year. The basic raw materials such as chlorine, alcohol and sulphuric acid and are said to be available in adequate quantities; benzol would have to be imported.

Paradichlorobenzene — Production appears to have leveled off domestic demand for this material at present. There is still a fair export inquiry. March exports totaled 317,000 pounds which was an increase of 55 percent over the preceding month and almost double January shipments. Exports in the first quarter totaled 683,000 pounds an increase of 82,000 pounds above those for the corresponding period in 1947. Canada was the principal country of destination during both periods.

Sodium Arsenite—Supplies of dry material have been exhausted for this season's requirements but the producer is offering liquid sodium arsenite in 50 and 5 gallon containers. Each gallon of this material is equivalent to 5.33 pounds of the dry grade.

Sulphur and Pyrites

No new developments were uncovered in sulphur last week. Demand continued steady with sales holding a satisfactory seasonal average. Stocks have permitted prompt mine shipments with transportation not a problem at present. Pyrites remained relatively quiet with prices unchanged.

Potash and pyrites are among the materials which Spain will export to the United Kingdom, in return for chemical and other products, under the terms of a trade agreement recently reported.

ECA Announces Additional Procurement Authorizations

New procurement authorizations amounting to $31,963,147 were announced for the week ended July 3 by the Economic Cooperation Administration, bringing total authorizations for the first ECA quarter (April-June) to $762,747,140.

In procurement authorizations listed below, the procuring agency is the government of the participating country or its authorized agents or importers and the country of origin is the United States, unless otherwise specified:—

To Austria—$601,400 for hides from Canada; $343,000 for cottonseed and meal from Mexico; $170,000 for herring meal from Iceland.

To France—$40,000 for oilcake and meal.

To Bizone Germany—$1,800,000 for sesame seed from Turkey.

To Netherlands—$132,100 for linseed and other types of oilcake and meal.

Total procurement authorizations to date by commodities to Europe include $12,017,855 for inedible oils and fats; $10,063,920 for fertilizers; $105,706,957 for petroleum products; $9,012,280 for medicines and chemicals; $2,763,000 for non-metallic minerals; $49,872,360 for nonferrous metals, and $742,400 for hides, skins and rubber.

Isoamidone Held Opiate

Isoamidone was proclaimed by President Truman July 3 to be an opiate within the meaning of section 3228 (f) of the Internal Revenue Code and made subject to the requirements of the law covering drugs having an addiction-forming or addiction-sustaining liability similar to morphine or cocaine. The chemical name of the drug is 4,4-diphenyl-5-methyl-6-dimethylamino-hexanone-3.

FAO Appoints A.H.Boerma Regional Director in Europe

The Food and Agriculture Organization of the United Nations has appointed A. H. Boerma, of the Netherlands, to succeed S. L. Louwes as regional director for Europe. Mr. Louwes has resigned to return to the Netherlands Ministry of Agriculture, Fisheries and Food Supply.

Mr. Boerma assumed his new duties Immediately and is expected to arrive in Washington this month to consult with FAO officials. Since January, 1946, he has been Commissioner for Foreign Agricultural Affairs of the Netherlands, and was previously acting director-general of the Ministry of Agriculture, Fisheries and Food Supply.

Sweden Now Qualified For ERP Assistance

The government of Sweden last Thursday signed an agreement pledging cooperation in establishing a healthy economy independent of extraordinary outside assistance, thereby becoming the thirteenth European country to qualify for assistance under the Marshall plan. A sum of approximately $36,000,000 has been tentatively set aside for Sweden for the first fifteen months of the European Recovery Program.

Trade Briefs

Sterling Drug Inc., New York, has instituted a safe driving program among its 543 salesmen who use automobiles to contact customers.

Joseph C. Lynch, secretary of the Pacific Coast Borax Company, has been named to the board of directors of the New York Credit Men's Association.

Medicinal preparations exported from Canada during the first four months of 1948 were valued at $1,399,000, compared with $1,081,000 in the corresponding months of last year.

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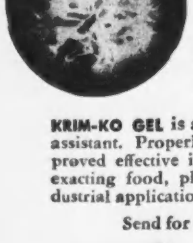

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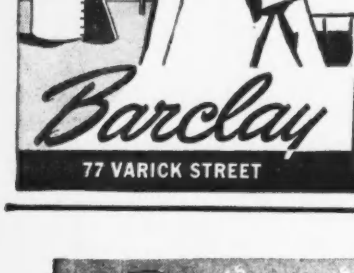

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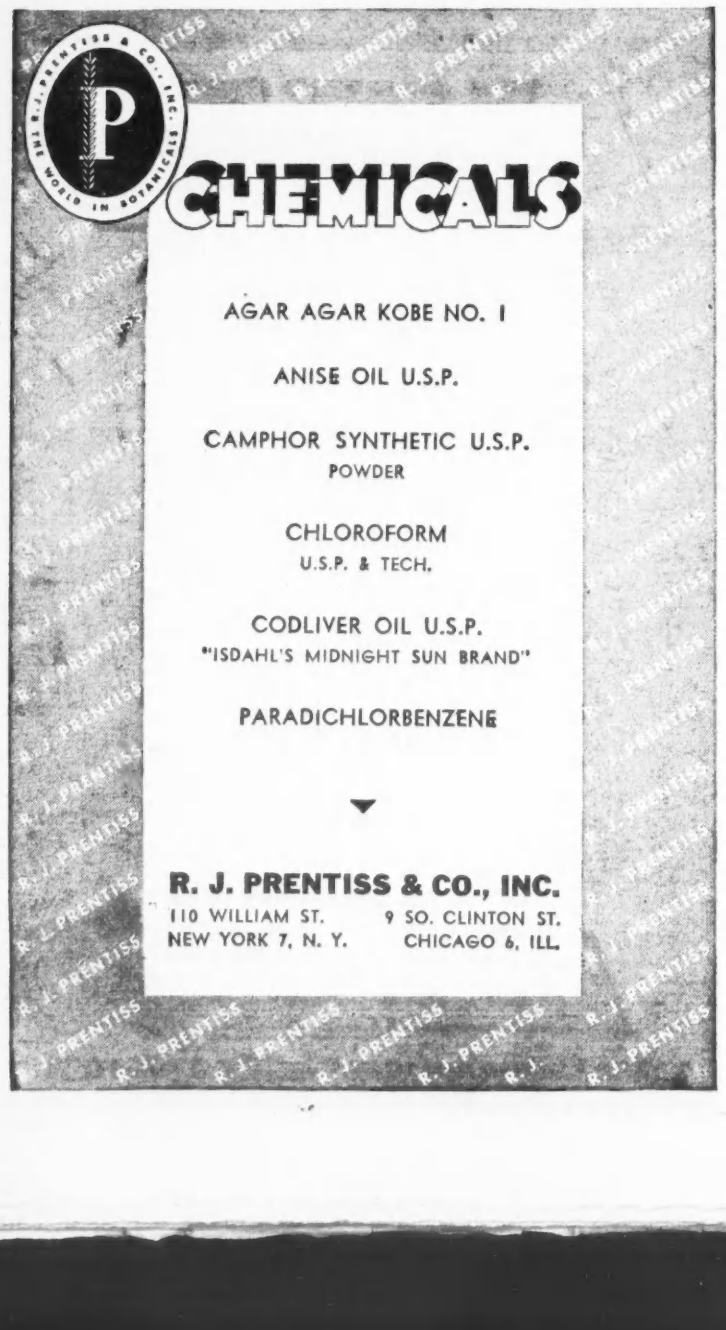

ACS National Meeting To Be In Three Sections

The American Chemical Society has announced that it will hold its 114th national meeting in three sessions, from August 30 to September 17. The eastern session will be held in Washington from August 30 to September 3; the midwest session will convene in St. Louis from September 6 to 10, and the western session will be held in Portland, Ore., from September 13 to 17.

The divided national meeting, first in the society's history, has been devised to afford an opportunity for a maximum number of its members to attend, according to Dr. Charles Allen Thomas, president of the society and executive vice-president and technical director of Monsanto Chemical Company.

Plans have been made for the participation of 127 of the society's local sections in the three sessions, and it is expected that several hundred technical papers will be presented. Seven awards for outstanding achievement will be made and memorial programs will be conducted for Baron Jons Jakob Berzelius, Swedish creator of the modern system of chemical symbols, and the late Dean Frank C. Whitmore of Pennsylvania State College, past president of the society.

American Window Glass Elects Williams Treasurer

The American Window Glass Company, Pittsburgh, Pa., has elected James L. Williams treasurer. Mr. Williams was formerly controller of the company. Prior to his association with the American Window Glass Company, he was with the Haws Refractories Company and the National Tube Company.

Bids Wanted

Calcium chloride, flake, 450,000 pounds, Navy Purchase Office (New York 3) invitation 2933, July 16.

Calcium hydroxide, 500,000 pounds, Navy Purchase Office (New York 3) invitation 2938, July 16.

Chrome yellow, 100,000 pounds, Aviation Supply Office (Navy Department, Philadelphia 11) invitation 1928, July 19.

Cornstarch, 1,050,000 pounds, Quartermaster Purchasing Office (Chicago 9, Ill.) invitation 986, July 20.

Detergent, hand cream, 6,224 pounds, Bureau of Federal Supply (Washington 25, D. C.) invitation 3-M-65335-R, July 13.

Drugs and chemicals, various, Army-Navy Medical Procurement Office (Brooklyn 1, N. Y.) invitation 57, July 19; invitation 61, July 19; invitation 58, July 19; invitation 56, July 19; Veterans Administration (Washington 25, D. C.) invitation A-3, July 13.

Ethyl alcohol, denatured, 1,134 gallons, Army Ordnance Department (Watervliet, N. Y.) invitation 3, July 21.

Ferric ammonium oxalate, 2,000 pounds, Navy Purchase Office (New York 3) invitation 2933, part 1, July 15.

Fingerprint remover, 11,600 gallons, Navy Purchase Office (New York 3) invitation 2933, part 5, July 15.

Fuel oil, 50,000 gallons, Army Corps of Engineers (St. Paul 1, Minn.) invitation 2, July 14; diesel, 40,000 gallons, Army Corps of Engineers (Milwaukee 1, Wis.) invitation 85, July 15.

Hydraulic brake fluid, 1,500 gallons, Navy Purchase Office (New York 3) invitation 2848, part 1, July 13; **oil,** noncorrosive, 2,000 gallons, part 2, July 13.

Indian red, 100,000 pounds, Aviation Supply Office (Navy Department, Philadelphia 11) invitation 1928, July 19.

Ink, litho offset, as required through June 30, 1949, Coast and Geodetic Survey, Department of Commerce (Washington 25, D. C.) invitation 356, July 23.

Lacquer, enamel, 2,395 gallons, Army Chemical Center, Md., invitation 531, July 15.

Magnesium silicate, 500,000 pounds, Aviation Supply Office (Navy Department, Philadelphia 11) invitation 1928, July 19.

Metal polish, non flammable, 14,065 gallons, Navy Purchase Office (New York 3) invitation 2933, part 4, July 15.

Monosodium phosphate, 16,000 pounds, Navy Purchase Office (New York 3) invitation 2933, part 1, July 15.

Naphtha, neutral, 30,000 gallons, Navy Purchasing Office (New York 3) invitation 2933, part 2, July 15.

Naphthalene, flake, 40,000 pounds, Navy Purchase Office (New York 3) invitation 2933, part 2, July 15.

Paint, enamel, 156,000 pounds, and 22,500 gallons, Aviation Supply Office (Navy Department, Philadelphia 11) invitation 1923, July 20; various, 3,370 gallons, Army Chemical Center, Md., invitation 531, July 15; 75,200 gallons, Aviation Supply Office (Navy Department, Philadelphia 11) invitation 1923, July 20; 28,000 gallons, invitation 1931, July 14; Army Signal Corps (Philadelphia 45) invitation 247, July 20.

Petroleum gas, liquefied, 1,500 pounds, Navy Purchasing Office (New York 3) invitation 3001, July 13.

Phenol, 25,000 pounds, Navy Purchase Office (New York 3) invitation 2933, part 3, July 15.

Photographic chemicals, Army Signal Corps (Philadelphia 45) invitation 109, July 19; developer and hydroquinone, Bureau of Federal Supply (Washington 25, D. C.) invitation 3-M-65337-R, July 14.

Phthalocyanine, blue red, 100 pounds, Government Printing Office (Washington 25, D. C.) July 14.

Potassium bichromate, 5,000 pounds, Navy Purchase Office (New York 3) invitation 2933, part 1, July 15.

Prussian blue, paste, 9,750 one-ounce tubes, Aviation Supply Office (Navy Department, Philadelphia 11) invitation 1928, July 19.

Quebracho tannin, 17,500 pounds, Navy Purchase Office (New York 3) invitation 2933, part 1, July 15.

Red lead, dry, 200,000 pounds, Aviation Supply Office (Navy Department, Philadelphia 11) invitation 1928, July 19.

Rock salt, 350,000 pounds, Navy Purchase Office (New York 3) invitation 2933, part 6, July 15; 200,000 pounds, invitation 2975, July 13.

Sienna, raw, 25,000 pounds, Aviation Supply Office (Navy Department, Philadelphia 11) invitation 1928, July 19.

Sodium bicarbonate, 16,000 pounds, Navy Purchase Office (New York 3) invitation 2933, part 1, July 15.

Sodium cyanide, 3,500 pounds, Navy Purchase Office (New York 3) invitation 2933, part 1, July 15.

Sodium metaphosphate, 35,000 pounds, Navy Purchase Office (New York 3) invitation 2933, part 1, July 15.

Sodium sulphate, 15,000 pounds, Navy Purchase Office (New York 3) invitation 2933, part 1, July 15.

Sodium thiosulphate, 15,000 pounds, Navy Purchase Office (New York 3) invitation 2933, part 1, July 15.

Streptomycin, 65,000 grams, Veterans Administration (Washington 25, D. C.) invitation A-4, July 16.

Tablets, including ammonium chloride, atropine sulphate, codeine sulphate, Army-Navy Medical Procurement (Brooklyn 1, N. Y.) invitation 53, July 19.

Tetrachloroethylene, 15,000 gallons, Navy Purchase Office (New York 3) invitation 2933, part 7, July 15.

Thinner, enamel, 4,530 gallons, Army Chemical Center, Md., invitation 531, July 15.

Titanium dioxide, 35,000 gallons, Aviation Supply Office (Navy Department, Philadelphia 11) invitation 1928, July 19.

Trichlorethylene, 55,250 pounds, Army Ordnance Department (Rex River Arsenal, Texarkana, Texas) invitation 26, July 14.

Trisodium phosphate, 169,500 pounds, Navy Purchase Office (New York 3) invitation 2933, part 1, July 15.

Typewriter cleaner, 32,125 four-ounce bottles, and 1,004 six ounce bottles, various deliveries, Bureau of Federal Supply (Washington 25, D. C.) invitation 3-M-65336-R, July 13.

Wax, floor, 2,112 pounds, Bureau of Federal Supply (New York 7) invitation NY-W-13370, July 15.

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Essential Oils, Other Aromatics

The market for essential oils and aromatic chemicals was in a largely unchanged position last week, although there was an increase in price reported for clove oil, Madagascar, buds, which caused the index figure to mount to 124.8, a rise of 0.3 point above that for the previous week.

Among the essential oils there were decreases in patchouli and Bourbon vetiver, but the aromatic chemicals remained firm and unchanged.

Generally speaking, demand for the essential oils was not heavy, but there were adequate supplies of nearly all products available should the demand increase. The aromatics were in a better position as to demand, and for the most part they were in a good position as to supply.

Business was in something of a slump. It was expected that there would be little change in this condition during the summer months, except in the field of flavorings for soft drinks and seasonal confections. The July 4 weekend boosted sales of beverages and summer confections considerably, but it was the first real boost that these items had received all year, and what the trade wanted was several more just like it.

Up until the end of June, attendance at beaches and resorts was below that of a year ago, and sales of summer goods were naturally depressed. Dealers in flavors were hoping for a break in the weather, and if the protracted heat of the holiday weekend was any indication of what was to come they felt that they could do a brisk business this summer in citrous and other flavors. Lemon and orange oils were in good supply, and waiting for the market. Lime was not quite so plentiful, but there was some available and no severe pinch was expected unless demand should go up unexpectedly.

Aromatics supply houses were in about their usual slow summer position, although some of them reported that of late they had been doing a good business with the larger soap manufacturers. They were said to be taking large orders, despite the fact that reductions in soap prices were announced recently. The smaller soap makers, however, were not coming in for this heavy buying, at least not yet.

Market Trends

Prices Advanced

Clove oil, Madagascar, buds, 10c. per lb.

Prices Reduced

Patchouli oil, 75c. per lb.
Vetiver oil, Bourbon, $1 per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
124.8	124.5	127.6	188.8

(For Current Prices see Page 9)

Essential Oils

Anise—There was no great demand for this material, particularly in large lots, during the past week. Some of the oil was being sold, but most of it was going in jobbing lots, as it had been for some time past. Supplies were sufficient to meet the demand, and the price structure remained unchanged.

Bergamot—This item held to its former levels as to price during the past week. Supplies of it were adequate to meet the demands of handlers, but demand was not great. There was a fairly steady request being made for the material in small lots, but for the most part the large-quantity users of the material had not appeared on the market.

Cananga—After decreasing in price during the previous week, this material remained firm and unchanged as to price on the New York market during the period just ended. Sellers appeared to be ready to deal on a more highly competitive basis than they had of late. There was not a particularly heavy demand for the material, but supplies were reported to be at levels sufficient to satisfy all the normal demands of the users of this material.

Caraway—There was not a great deal of consumer demand noted for this material during the period under review. Supplies, however, were sufficient to satisfy the calls that were being made for the goods. Prices here remained firm, with the raw materials market in Europe being largely responsible for keeping prices in this country at an even level.

Clove—The price for the Madagascar bud oil went up on both the low and high sides of the range last week. The lower figure, which had been $1.15, advanced to $1.25, and the higher figure rose from $1.20 to $1.30. Supply houses reported that stocks of the oil were at ample levels, but that the demand for it was not great.

Erigeron—There continued to be forecasts of a shortage of this material for the year. The reason was that the growers of the material were turning their lands to the cultivation of other products, which brought them greater final returns, and were paying less attention to erigeron than the consumers liked to see. Prices, for the moment, remained firm, however, in spite of threatened shortages.

Geranium—There was not a great deal of demand noted for this item during the past week, and sellers reported that their customers were taking the goods mostly in a hand-to-mouth manner. There was an inclination among sellers to shade their quotations at the promise of large quantity orders, but there were not a great many sizable orders being received. Despite the slowness of the market tempo, there were no changes in quotations reported during the week.

Lavandin—This material had shown a decline in price during the previous week, but as of last week it was firm. The demand for it, however, continued to be light. Supplies of the goods were adequate to meet the normal demands of the market.

Lavender—Demand for this item was weak during the period under review. Supplies of it were sufficient to meet the requests that were being made for it, but most of these were only for small amounts. It was judged that prices might show a decline if it were not for the fact that at the moment this was prohibited by the cost of replacement.

Lemon—The Fourth of July weekend, with its hot weather raising the consumption of soft drinks tremendously, was just what the sellers of lemon oil had been looking for. They hoped that weekend would be a good omen for the rest of the Summer, for if it was they would have nothing to complain about concerning the sale of citrous oils. Up until the end of the month of June attendance at beaches and Summer resorts had not been up to the level of last year, and since those places are among the heaviest consuming points of hot weather beverages there was in the early part of the season still something to be hoped for as far as the sale of citrous oils went. But an advantageous turn in the weather could turn a dull season into a brisk one almost overnight, and that was what sellers were hoping for. As of last week, prices remained unchanged. Sales were fairly good, but there was room for improvement, and that improvement could be brought about only by a long period of favorable weather.

Lime—This oil was not in quite as strong a supply position last week as the other citrous oils, but since the demand had not up until that time become especially heavy, there was still enough of the oil on the market to satisfy normal orders. Demand for the item had been reasonably good during the past few weeks, but the lateness of the season in general had its effect in keeping it down at a level lower than it would normally have been had there been more warm and clear weather. However, the season for the heavy consumption of this material was still far from over, and suppliers of the product pointed out that all they needed to cause sales to soar was a prolonged period of hot weather. Should that occur, it was expected that the market would see some interesting developments pricewise. There was enough of the oil for the market at present and prices could be maintained, but should demand go up heavily there might be a pinch and a resulting unsettlement in quotations.

Mustard—The lower quotation of $1.40 for the synthetic USP remained firm and unchanged on the New York market last week, but the higher quotation advanced from $1.45 to $1.60. Most dealers considered this price to be a bit on the high side, however. Supplies of the material were sufficient to satisfy the market, but the demand for the goods was not at particularly high levels.

Orange—Prices held firm and unchanged for this material last week, but the trade was waiting to see what would happen if the warm weather continued and the demand for the material in-

For Late Market Developments, See Page 4

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creased. To date, demand had been satisfactory, but not particularly high. The real hot part of the Summer was just beginning, however, and some interesting developments could reasonably be expected in the market for this oil.

Patchouli—There was very little demand for this material noted during the past week, and as a result the price dropped from $8.75 to $8 a pound. The range was extremely wide, however, and some suppliers were asking as high as $25. The variance in price, however, was largely attributable to differences in quality. Supplies of the oil were ample but there was little interest being shown by buyers in taking on replacement orders.

Sandalwood—The NF Mysore was going at $13 to $13.75 a pound last week, but demand for it was still not all that sellers would have liked to see. Supplies were sufficient to accomodate normal ordering.

Vetiver—The Bourbon oil, which had been on the decline for some time, went from $17.50 to $16.50 last week on the low side of the range, although some sources were still asking as much as $38 for it. The average selling price was somewhere in the neighborhood of $20. Supplies of the material were plentiful, but demand for it was not at particularly high levels.

Aromatic Chemicals

Acetophenone—Suppliers in New York reported last week that the demand for this item continued to be slow at best, but they were prepared to fill all orders for it they received, since stocks on hand were at good levels. The price range for the material remained unchangd at the former level of $1.50 to $1.85 a pound.

Amyl Salicylate—The demand for this item was reported to be running from fair to good last week. Supplies of it were said to be at satisfactory levels and there were no difficulties being encountered in filling orders for the material. The price range showed no tendency to change during the period and the material was still being offered at 77c. to $1.

Benzophenone—Some supply houses last week reported that they were just about able to take care of the orders for this material. The demand for it was running at very high levels, with most of the orders coming from the manufacturers of soap and cosmetics. There was no actual shortage of the material, but sellers reported that there were no considerable overstocks, either. Despite this condition there was no change in the price range and the item continued to be quoted at the former prices of $1.30 to $1.70.

Citronellal—There was very little activity in the market for this material reported in New York last week. Supply houses reported that they were receiving practically no orders for the material and that they were carrying very little of it in the way of supply. This was not a particularly surprising condition, however, since the item is generally regarded as a slow one. The lower quotation of $2.75 a pound was unchanged for the period under review, but for the first time a new higher price was reported. This was $7.75.

Citronellol—Demand for this material continued to be made at a sufficiently high rate last week to satisfy most sellers of the goods. Supplies of it were reported to be at very high levels, and dealers in the material were having no trouble in filling orders promptly. There were no changes in the price range of $3.85 to $4.75.

Diethyl Phthalate — This material was still going at 36c. to 50c. a pound last week on the market in New York. Supplies of it were reported to be at levels sufficiently high to satisfy most normal orders but the demand for the material was not at particularly high levels.

Geranyl Acetate—The price range of $3.35 to $3.90 remained unchanged for this item during the period under review. Supplies of it were said to be at only fair levels, but despite the relative scarcity of the material there was no pinch being felt because the demand for it was somewhat sluggish. What material was being sold was going largely to the manufacturers of soap and perfumes, but there was no great amount of this business being done.

Hydroxycitronellal — Supply houses in New York last week reported that they had excellent stocks of this material on hand but for the most part the material was not moving at any great speed. Soap manufacturers were taking their share of the material, but not enough to decrease by any considerable amount the stocks of it that the supply houses were carrying. Market conditions had no effect on the price structure of the material, however, and it was still being offered at between $6.50 and $7.50 a pound.

Linalool—The ex bois de rose material was firm and unchanged as to price last week on the market in New York. Quotations were $4.50 to $6.85 a pound. Supply houses reported that the stocks of the material were not much above fair levels, but there was only a minor demand being felt for the material and as a result there was no shortage and there was none anticipated unless demand should rise sharply and unexpectedly.

Linalyl Acetate — The price range of $4.35 to $7.20 remained firm and unchanged for the ex bois de rose material during the period under review. Supplies of it were said to be at good levels but there was not a great deal of interest being shown in it by buyers, with the result that any purchaser who needed the material could find it readily available.

Phenyl Acetaldehyde—The 50 percent, in bottles, was being sold at $2.35 to $2.75 last week, which represented no recent changes in price. Customarily only a minor item in the trade, some suppliers were making it only on demand. The pure, in bottles, was being quoted at $4 on the low side of the range, which represented no change from the former listing, but the high side went up during the week from $4.50 to $4.80. The pure was reported to be in a good position as to supply, but the demand for it was said to be only about fair.

Phenylethyl Acetate—This material was being quoted at $1.65 to $2.70 on the market in New York last week. There was not a great deal of demand being felt for it, but supplies of it were only in about a fair position, and the condition of the material could be called balanced as between supply and demand.

Trade Briefs

Louis F. Haznaw, chemist in the Chicago office of Florasynth Laboratories, Inc., has been elected president of the Lions Club in Westmont, Ill.

Medicinals exported from Hong Kong to the United States during the first four months of 1948 totaled 107,750 pounds, valued at $139,444.

MM&R Export Manager

Dr. Henri F. Logcher has been appointed export manager of Magnus, Mabee & Reynard, Inc., essential oil house, New York. Dr. Logcher was formerly sales manager in charge of the household and chemical divisions of Home Products International, Ltd., export branch of the American Home Products Corporation.

Dahl Gets Post With Bourjois, Inc.

Bourjois, Inc., cosmetics manufacturer, New York, has appointed Norman F. Dahl assistant general manager and coordinator of merchandising. He was formerly president of Prince Matchabelli, Inc., for five years.

In his new capacity Mr. Dahl will be responsible for coordinating and integrating the general merchandising activities of Bourjois, Inc., and Barbara Gould, Inc., and will be assistant general manager of both companies. His experience in the cosmetics industry includes the operation of Elizabeth Arden of Canada, Ltd., for more than ten years, and a period as general manager of Lehn & Fink Products Company.

Toni Company Plans Expanded Research

The Toni Company, cosmetic manufacturing subsidiary of the Gillette Safety Razor Corporation, has fixed a budget of $300,000 for research work for the next year. The major portion of the work will be done at the company's laboratories in Chicago and St. Paul, but research grants totaling more than $50,000 have been made to the New York University College of Medicine and other institutions for special studies of the pharmacological and dermatological properties of cosmetic ingredients.

Lyon, Sothern Named Agents For Guatemalan Essential Oils

Oficina Controladora de Aceites Esenciales, Guatemala City, Guatemala, an organization composed of all producers of citronella and lemongrass oils in that country, has appointed Julian W. Lyon and Harold A. Sothern, New York brokers, as exclusive selling agents in the United States.

The organization controls the quality and purity of all citronella and lemongrass oil produced in Guatemala City maintains a warhouse in Guatemala City from which shipments are made to Puerto Barrios and thence to this country. Further information may be obtained from Mr. Lyon at 7 Dey street, or from Mr. Sothern at 341 Madison avenue.

Seltzer Heads Sales For Windsor House

Windsor House, Ltd., toiltries manufacturer, New York, has appointed Robert H. Seltzer general sales manager. In his new capacity, Mr. Seltzer announced that the company is planning the marketing of a new line of men's grooming essentials. He was formerly in charge of sales for two subsidiaries of the Bristol-Myers Company.

Durrer in Europe

Ernest R. Durrer, executive vice-president of Givaudan-Delawanna, Inc., essential oils and aromatic chemicals, New York, has left on a business trip to Europe, where he will confer with company officials in France and Switzerland. Mr. Durrer will discuss plans for the introduction of new aromatic specialties and synthetics to the American market.

Nucleonics Symposium To Be Held Aug. 13-14

New chemical techniques with which scientists are charting the course of the atomic age will be reported at the American Chemical Society's first symposium on nucleonics and analytical chemistry, which will be held at Northwestern University on August 13 and 14. The use of radioactive isotopes as tracers in research, ultra-sensitive instruments employed in measuring radioactivity, and industrial applications of the new analytical methods are among the subjects to be discussed in papers by ten of the nation's outstanding authorities on nuclear chemistry.

Dr. Clement J. Rodden, chief of the section of uranium and related materials of the National Bureau of Standards, Washington, is general chairman of the symposium, and Dean Samuel C. Lind of the University of Minnesota Institute of Technology is honorary chairman. The meeting is sponsored jointly by the society's division of analytical and micro chemistry, of which Dr. Philip J. Elving of Purdue University is chairman, and "Analytical Chemistry," monthly publication of the society, of which Dr. Walter J. Murphy of Washington is editor. The Chicago headquarters for the symposium will be the Sherman hotel.

The booklet describes how associations carry on marketing research through committees, university cooperation, joint sponsorship, and private research organizations. The current research activities of 75 cooperating associations are discussed, classified into the following types of research: (1) product research; (2) consumer research; (3) market analysis; and (4) research relating to marketing functions, policies and costs. By examining the programs of a representative number of trade associations from various industry groups, executives can quickly spot opportunities for service or assess the effectiveness of existing programs.

Market Research Manual Issued by Commerce Dept.

The Department of Commerce has recently published an eighty page guide for trade association executives under the title "Trade Association Opportunities in Marketing Research." It gives the results of a study made by the Office of Domestic Commerce which was undertaken to provide a practical working manual for trade associations contemplating the initiation, reorganization or expansion of marketing research programs.

OAP Notes Deadline For Filing Debt Claims

Attorney General Tom C. Clark Friday called attention to the August 8 date which has been fixed as the deadline for filing debt claims with the Office of Alien Property of the Department of Justice, against all individuals and business enterprises whose property was seized as alien property between December 18, 1941, and December 31, 1946, and for whom earlier bar dates had not been previously issued and published in the Federal Register.

This will be the last opportunity for creditors of these persons and enterprises to file claims for payment. Creditors of persons or firms whose property has been taken over by the United States under the trading with the enemy act may file claims with the Attorney General.

The statute also provides generally that claimants must be United States or Philippine citizens or residents of the United States since Pearl Harbor. Claims also may be filed by corporations organized under Federal, state, territorial or Philippine law.

Japan Developing

—Continued from page 5

ports of materials in the chemical and related categories, according to records of the Chemical Importers Consultation Society, Tokyo, have been as follows:—

	Kilograms	Destination
Aluminum sulphate	5,000	Singapore
Ammonia, liquid	7,400	Korea
Borneol, flake, crystals		
	lbs. 2,500	Hongkong
	lbs. 2,750	Siam
	lbs. 700	Singapore
	lbs. 1,004	India
Calcium carbonate, heavy	80,000	Hongkong
light	50,000	Hongkong
Camphor oil	lbs. 147,150	U.S.A.
	lbs. 500	Singapore
	lbs.	India
Carbite	124,988	Korea
Caustic soda		Hongkong
	200,576	New Zealand
	200,020	Nigeria
Clay, refractory	567,500	Korea
Copper sulphate	400,000	Korea
Dyestuffs:		
Acid red 3B	180	Burma
Carbanol yellow GX	180	Philippines
Congo red	4,000	Korea
Mikethrene brown N	936	Hongkong
green B	30	Burma
Mordant yellow GX	180	Hongkong
Sulphur black B	360	Burma
	10,500	Korea
	25,860	Hongkong
	480	Philippines
BRX	5,340	Burma
BX	360	Burma
Brown R	165	Burma
	165	Philippines
Dynamite	74,840	Korea
	45,600	China
Ethyleneglycol	6,000	Korea
Eucalyptus oil lbs.	750	Philippines
Fruit essence lbs.	500	Singapore
Heliotropin lbs.	2,200	U.S.A.
Iodine, crude	1,000	Switzerland
	10,000	U.S.A.
Lithopone	40,000	Java
Nitric acid, conc	17,500	Korea
Ocher	25,020	Java
Paint, ready-mixed	950	Korea
Pigments, n.e.s	207,660	China
Printing ink	8,750	Korea
	23,250	Hongkong
Sulphur, lump	200,000	Korea
	993,000	China
	5,000	Siam
powder	50,000	Hongkong
Sulphuric acid	106,390	Korea
fuming	5,490	Korea
Varnish, bakelite	2,040	Korea
Zeolite	7,500	Korea
Zinc oxide	153,000	Hongkong
	5,000	Siam
	210,000	Java
	50,000	Belgium

The same organization records the following imports into Japan from the United States during 1947:—

	Pounds
Benzol	4,980,276
Carbon black	554,076
Cresol	166,779
Chlorine, liquid kgs.	42,536
Dyestuffs	145,926
Ether	45,000
Magnesium sulphate	500
Rasorite	6,034,593
Rongalite	12,150
Sodium hydrosulphide	248,256
Strontium nitrate	26,500
Water purification and decontaminating agents	2,201,922

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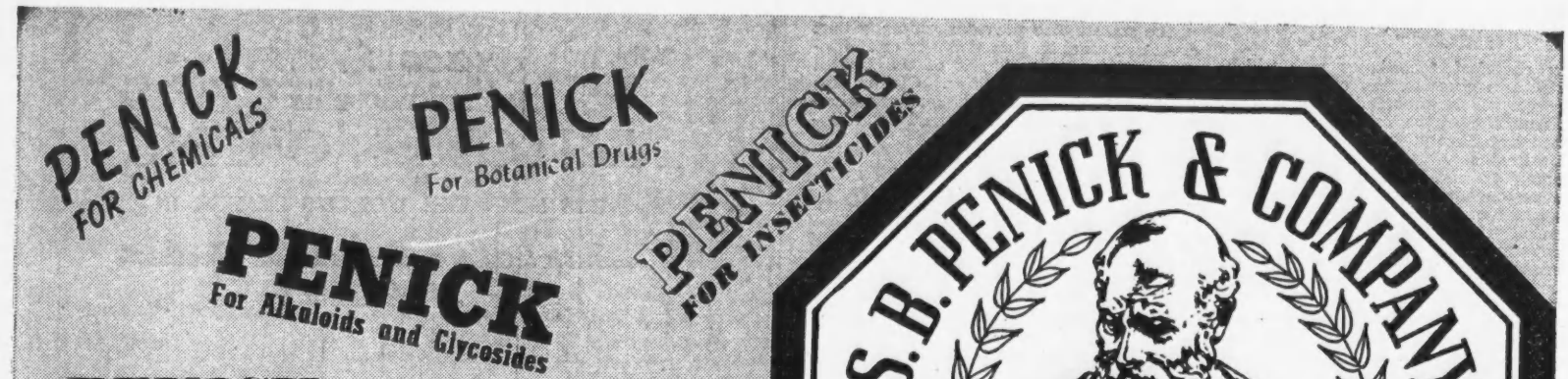

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Botanical Drugs, Spices, Gums

More than a mere "pause in the day's occupation" is the lot of the botanical drug market at the present time. Demand during the past week was below the normal, seasonal low ordinarily a commonplace during the Summer months in most years. And, according to well informed quarters in this market, it is only lack of demand that has caused the substantially downward move of many spot quotations.

In whatever quarter inquiry was made, it was found that local dealers highly recommended buyers to buy now on contract for at least six months of their probable manufacturing requirements in the consuming year of 1948-49. But, also, it seemed likely that manufacturing consumers were doing more than pause to consider the aptness of dealers' view on the market.

The day has passed when New York dealers, or for that matter, dealers more closely identified with the domestic primary market, will buy botanicals and store them against the *possible* needs of buyers. Not so very long ago, dealers bought new crops without precise indications from consumers as to their probable needs. Consumers then expected dealers to have drugs in store whenever buyers asked for them. The result was long inventories and the storage of very slow moving botanicals at the total expense of the dealers. Those days, according to the trade, are probably gone forever. Few dealers will now buy either domestic or foreign goods on the bare chance that some one will want them some time.

Inventories have just been taken in this market and they fail to disclose an exceptionally long line of merchandise against which buyers may draw. And its doubtful if the stocks will be increased substantially unless manufacturing consumers meet dealers half way, make known their probable needs now and indicate what they will pay. Given a knowledge of what is wanted and what buyers will pay, dealers will go into the primary markets and make certain that all stated requirements of manufacturing consumers are duly protected. Contracts covering at least part of consuming needs now will be an investment paying excellent interest prove an investment paying excellent interest in the form of consumers' peace of mind, according to dealers.

Balsams

Copaiba—Demand was relatively light, consisting of not more than a moderate number of jobbing requests which were readily supplied from spot stocks of sufficient size to withstand any reasonable expansion in the requirements of manufacturing consumers.

Fir—Since the late decline in prices, both Canadian and Oregonian balsams have assumed a relatively steady position in which an absence of much competition offset the possibly easing effect of a demand not much larger than fair size.

Barks

Buckthorn—A further unsettlement of prices resulted from the lack of sustaining demand. Natural bark was down to 23c. to 24c. per pound and the cut and sifted stood at 26c. to 28c.

Cascara Sagrada—Some tendency to shade prices was noted on the spot but no substantial easing of the primary market position of new crop has been reported from the Pacific northwest and, hence, most quarters stood aloof from price developments pending further developments in the general situation.

Elm—Price unsettlement appeared to have disappeared on spot and the quotations named during the past week were fully steady despite the not very substantial interest displayed by buyers.

Beans

Tonka—Trading throughout the past week was in relatively small lots and not a great deal of that sort of business was reported. Prices retained a very steady undertone, reflecting the position of the item in the replacement markets.

Vanilla—Prices ceased to shift and they appeared to have reached a level where some stability might be expected to develop unless replacement costs shall undergo a substantial change from present levels at the origins. Demand was relatively light and mainly for jobbing requirements throughout the past week.

Berries

Juniper — Reports from Washington were to the effect that all restrictions on the use of grain by distillers had been removed. This could mean that production of gin may be resumed on a scale large enough to restore demand for juniper berries; demand had lagged for many weeks.

Sloe—Purchasers of new imports could expect to cover needs at prices much lower than local dealers ask for the stocks in hand, stocks bought at the origin at prices far above the current shipment quotations. Resumption of gin making could include that of sloe gin, which should increase interest in the essential berry.

Flowers

Borage—Readjustment of spot prices continued and by the end of last week the market was down to the basis of 50c. to 55c. per pound.

Chamomile—Hungarian material continued to display unsettlement that appeared to be related to the possible developments in prices relating to new crop offerings from the origin. Spot quotations were lowered to 48c. to 50c. per pound.

Elder—Bright flowers were cheaper once more, standing at 45c. to 50c. per pound at the end of a very full week.

Malva—Blue flowers were easier and in more competitive position at the lower price of $1.25 to $1.30 per pound. No offerings of black flowers were reported.

Orange—After an extended period of price inactivity, sellers of this material reduced quotations last week to the basis of 40c. to 45c. per pound and reported very limited call for the item.

Poppy—Red poppy flowers could be bought at 50c. to 55c. per pound without much difficulty in local circles but few buyers took advantage of the more favorable quotation.

Rose—Pale flowers lacked change, be-

Market Trends

Prices Advanced

Drugs

None

Other Articles

Celery seed, Indian, 15c. per lb.
Cloves, Zanzibar, 5c. per lb.
Mustard seed, Montana, yellow, 1c. per lb.

Prices Reduced

Drugs

Aslonia vernalis, 5c. per lb.
Agrimony herb, 5c. per lb.
Angelica root, domestic, 15c. per lb.
imported, 25c. per lb.
Boneset leaves, 2c. per lb.
Borage flowers, 5c. per lb.
Buckthorn bark, 2c. per lb.
Calamus root, domestic, 3c. per lb.
Chamomile flowers, Hungarian, 2c. per lb.
Digitalis leaves, 10c. per lb.
Elder flowers, bright, 3c. per lb.
Fenugreek, black, 5c. per lb.
blonde, 1c. per lb.
Gentian root, 1c. per lb.
Iceland moss, 10c. per lb.
Irish moss, 2c. per lb.
Lobelia herb, 10c. per lb.
Nux vomica, 1c. per lb.
Orange flowers, 5c. per lb.
Poke root, 1c. per lb.
Pulsatilla herb, 5c. per lb.
Pumpkin seed, 2c. per lb.
Rhubarb root, 5c. per lb.
Sarsaparilla root, Mexican, 5c. per lb.
Skunk cabbage root, 5c. per lb.
Snake root, Canada, 5c. per lb.

Other Articles

Coriander seed, Italian, 1c. per lb.
Poppy seed, Dutch, 1c. per lb.
Turkish, 1c. per lb.
Rosemary leaves, Spanish, 1½c. per lb.
Tarragon leaves, 10c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
205.9	208.0	212.5	276.4

(For Current Prices see Page 9)

Imports Detained by FDA

New York

Week Ended July 2

Carragheen moss, 30 bales: filthy.
Caraway seed, 39 bales: filthy.
Ergot, 100 bags: not N.F.
Fennel seed, 84 bags: filthy.
Henbane, 160 bales: hyoscyamus muticus substituted.
Mace, 36 cases: filthy.
Nutmegs, 25 cases: moldy.
Pepper, black, 1,293 bags: moldy and insect bored; excessive siftings and pickings.
Sesame seed, 560 bags: filthy.

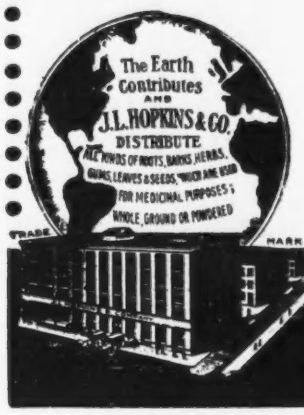
Philadelphia

Mustard seed, 200 bags: filthy.
Pepper, black, 80 bags: filthy.

For Late Market Developments, See Page 4

FOR PROMPT DELIVERY
from New Arrivals

Althea Root, Cut
Asafoetida
Benzoin Sumatra
Burdock Root
Catnip Leaves & Tops
Chamomile Flowers
Cocculus Indicus
Dandelion Root
Digitalis Leaves
Euphorbia Herb
Hawthorn Berries
Horehound Herb
Juniper Berries
Nux Vomica
Rhatany Root
Uva Ursi Leaves



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N. F.
WITCH HAZEL

72

The countryside around Essex and East Hampton, Conn., is pleasant in the Fall when the partially dried and dormant twigs of the witch hazel shrub are run through stills to produce the extract first introduced by Dr. Pond about the middle of the 19th century.

The decoction and infusion of both leaves and bark were favorites of the Indians who taught early settlers the use of pounded bark to make a poultice to treat inflamatory conditions.

The extent to which witch hazel has been used is suggested by the 13 inches of space devoted to its medical use in one dispensatory.

Did You Know That

NAMING THE STATES

Kentucky—From the Wyandot (Iroquoian) Indian name "Ken-tah-ten", meaning tomorrow, or Land of Tomorrow.

Michigan—The word means "Great Lake" and derives from the Indian "Michi", meaning great, and "gama", meaning water, a reference to Lake Michigan.

WAREHOUSE AND MILLS
JERSEY CITY NEW JERSEY

CRUDE BOTANICAL DRUGS
TRADE From Forty Nations MARK

ing reasonable in price and plentiful as to supply. Red flowers were lowered to $2.75 to $3 per pound and were offered in a very slow market.

Gums

Arabic—While demand was not better than fair, it was at least steady so far as moderate sized lots were concerned and the movement into consumption tended to give substantial support to prices prevailing on spot stocks which were in good supply.

Asafetida—Demand was no smaller than is normal for the Summer period, notwithstanding which prices seemed to be generally steady in the absence of competition between local suppliers.

Myrrh—Sufficient stock was held in local circles to cope with the extremely moderate consuming requirements of buyers in this the season of least demand for this produce. Prices were steady.

Herbs and Leaves

Adonis Vernalis—Competition was more to the fore and spot offerings were made on the lower price basis of 35c. to 40c. per pound. Sales usually involved only small lots of the item.

Agrimony—Absence of consumer interest has weakened the spot position of this material and at the end of last week the market was down to the basis of 35c. to 40c. per pound according to seller.

Boneset—Some quarters view as possible the idea that new crop may cost less this year and in such directions the spot quotations has been reduced to 15c. to 16c. per pound.

Digitalis—Once again quotations yielded to the element of local competition and quotations ended the week lower at 95c. to $1 per pound, which was said to reflect present replacement costs.

Lobelia—The pressure on spot prices continued downward and local quotations were as low as 65c. to 70c. per pound last week. New crop is not far off and the future of price developments depends on the extent to which new collection is substantial or otherwise.

Rosemary—Spanish leaves were lower at 10c. to 10½c. per pound but the balance of this market group failed to show change.

Pulsatilla—Shading of quotations was reported and offerings at 55c. to 60c. per pound met a relatively restricted consumer request.

Senna—Despite a firmer primary market being reported in some directions, other quarters took an easier view on spot prices and named No. 2 T. V. material at 17c. to 19c. per pound as to quantity; No. 3, 13c. to 14c.; Alexander siftings, 22c. to 23c.

Tarragon—Leaves continued to move in buyers' favor and quotations at the end of the past week stood on the basis of 85c. to 90c. per pound.

Miscellaneous

Iceland Moss—The market was easier and lower in some quarters, being proposed for consumer business on the basis of 40c. to 50c. per pound according to dealer and quality of moss offered.

Irish Moss—The market was well supplied with bleached material and under competitive circumstances as low as 18c. to 19c. per pound has been done on a prime quality product.

Nux Vomica—The market has eased slightly and whole buttons were offered at 8c. to 9c. per pound during the past week. For powdered material, 11c. to 12c. per pound was wanted by the millers.

Papain — Quality available showed a considerable range and in some measure accounts for the generally unsettled state of the world markets on this item. Local quotations ranged $4.25 to $5 per pound according to seller and test of the goods offered.

Roots

Angelica—Domestic root was shaded to 95c. to $1 per pound and the natural, imported merchandise was also lower at $1.25 to $1.30. New crop conditions seemed to be moving the market in favor of buyers.

Calamus — Imported merchandise showed no change and seemed to be reasonably steady at the moment. Some domestic root was quoted on the lower basis of 30c. to 35c. per pound, but interest was slight.

Gentian—The market has again reversed itself and local conditions of a competitive character have reduced quotations on whole to the basis of 15c. to 16c. per pound; ground, 18c. to 19c.; powdered, 30c. to 31c. This was said to fit with the import position of the item.

Poke—Collection is under way to some extent and spot quotations based on a fairly good sized holding of the slow moving botanic were reported lower at 17c. to 18c. per pound.

Rhubarb — The price improvement proved to be temporary because of the considerable competition prevalent on the spot. Whole root was down to the basis of 45c. to 50c. per pound and 50c. to 55c. was quoted on the article in powdered form.

Sarsaparilla—Mexican root was down to the basis of 30c. to 32c. per pound under competition. Domestic root also yielded to supply conditions and was quoted lower at 40c. to 45c. Honduras roots was offered also at 40c. to 42c.

Senega—Prices have not been depressed any further but they also lacked the support that only demand can give. Some believed that revival of demand at primary market points will strengthen the markets considerably.

Skunk Cabbage—Another notch was let out of the price of this item when goods

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were made available on the basis of 35c. to 40c. per pound. Sellers were still aloof.

Snake — Canadian root was easier and lower once more, competition proposing business to be done at the lower price of 50c. to 55c. per pound.

Seeds

Cardamom — The market held firm to strong at the very high levels reached on spot when shipment quotations at the various origins were advanced substantially during the past month or so.

Celery—Indian seed on spot moved in somewhat improved quantities and the demand from consumers resulted in prices being advanced fractionally to the basis of 21½c. to 22c. per pound. Futures held unchanged.

Colchicum—The to-arrive price of $3.50 to $4 per pound was still quoted on this market but the arrival date is some time off.

Flea—French seed was lower at 30c. to 35c. per pound but the price was considered to be too high to attract many buyers. Indian blonde seed was easier and lower at the more competitive price of 22c. to 23c. per pound. Husks showed no further price weakness.

Mustard — Crop conditions in Montana were said not to be too encouraging and with less acreage under cultivation this year, the 1948 crop was expected to be substantially below that of 1947. The only price change of the week came in Montana yellow seed, which article was fractionally higher at 14½c. to 14¾c. per pound.

Poppy—Some prices were lower and all seemed easier. Dutch seed on the spot was down to 21½c. to 22c. per pound and the Turkish variety of this produce was down a full cent to the basis of 14½c. to 15c.

Pumpkin—New crop was said to be some time off but in view of the slow movement out of current stocks, some sellers reduced the market to 25c. to 26c. per pound.

Wormseed—Once again, prices declined and American seed was offered at 15c. to 16c. per pound while the produce of the Levant was more favorably priced at $4.15 to $4.25 as to seller and quantity.

Spices

Cinnamon—Ceylon removed its price floor on this item and then, according to local advices, promptly restored the floor.

Clove—Zanzibar buds were fractionally higher at 16c. to 16½c. per pound. No change was made in the prices on Madagascar material.

Pepper—Reports from London said that the United States government had contracted to buy between 4,000 and 5,000 tons of Lampong pepper direct from Indonesian growers, this for stockpile purposes. London also reported that the United States had been using a firm of British rubber merchants to penetrate the curtain lowered by the Dutch and Indonesian revolutionists between themselves and the western world. London pepper prices were 2s. 9½d. per pound for black material. On spot, such goods were quoted 57c. to 58c.

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Dipentene	70	171-182	0.850
Soltene	210	172-203	0.880
Light Pine Oil	Infinite	180-214	0.900
XH Pine Oil	Infinite	214-222	0.944

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Protective Coatings Materials

A general weakening in natural resins quotations overshadowed other developments in the protective coatings market during the week, while most materials remained firm. Increases for imported casein and shellac and a decline for film scrap were regarded to be of minor importance, as the price index stood fast at 202.3.

In the midst of a Summer trading lull, natural gums dropped one-half cent to 2½ cents per pound. On the off side were Congo copals, down uniformly one cent per pound. Philippine copals and Macassar DBB were 1½ cents lower. Singapore No. 1 and elemi declined one cent per pound, while one-half-cent decreases were noted for Batavia dammar E and Macassar loba C. Although Macassar MA was 2½ cents off, dealers reported that futures were considerably lower and that the current New York price is entirely nominal because of the scarcity of that material.

Despite listless buying, lemon No. 1 and No. 2 grades of shellac reversed the previous week's downward trend with advances of one cent and 2 cents, respectively. The rise in the market was attributed to continued firmness in Calcutta and the growing shortage of the better grades of orange lacs in this country. Other price developments during the week included a one-quarter-cent rise in the price of imported casein and a one-half-cent decline in film scrap.

Although price activity was lacking in prime pigments during the week, earth color producers reported ample stocks for all but red iron oxide. Some improvement in the Spanish oxide situation was noted, with all but the top grade reported available on a one-month basis. Persian Gulf oxide was said to be going out in small, but steady, shipments to regular customers, despite the lack of recent arrivals. Some improvement was expected in lead pigments following the recent enactment of a law permitting free importation of lead stocks.

Domestic talc was still critically short last week. Emergence of a new producer on or about September 1 was not expected to relieve the situation appreciably. Synthetic resins, at the same time, were stable following a variety of July 1 changes. Alkyd producers remained non-committal on the subject of price guarantees, inaugurated recently by one maker.

Production of domestic casein, as reported for the first five months of this year by the Bureau of Agricultural Economics, was 56 percent below last year's output.

Market Trends

Prices Advanced

Casein, imp., acid-precip., ¼c. per lb.
Shellac, lemon, No. 1, 1c. per lb.
No. 2, 2c. per lb.

Prices Reduced

Film scrap, colored, ¼c. per lb.
Water-white, ½c. per lb.
Gum, copal, Congo, No. 1, 1c. per lb.
No. 2, 1c. per lb.
No. 3, 1c. per lb.
Macassar, DBB, 1½c. per lb.
MA, 2½c. per lb.
loba C, ½c. per lb.
Philippine, 1st quality, 1¼c. per lb.
2nd quality, 1½c. per lb.
3rd quality, 1½c. per lb.
Dammar, Batavia, E, ½c. per lb.
Singapore, No. 1, 1c. per lb.
Elemi, 1c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
202.3	**202.3**	**207.1**	**179.8**

(For Current Prices see Page 9)

Prime Pigments

Black, Acetylene—All market factors in this section continued on a par with levels of former weeks. Prices were firm at 13½c. per pound, carload, works, and 17c. to 19c., l.c.l., shipment point.

Black, Carbon—Although there were July 1 increases for certain specialty grades, the most-commonly used types of carbon black continued firm. Rubber and uncompressed grades of channel black, under pressure of a heavy demand, continued in short supply. Furnace blacks, however, were readily available.

Black, Synthetic Iron Oxide—In free supply during the week, this pigment material was on good call. Prices remained at 10¾c. to 11c. per pound, works.

Brown, Metallic—The price structure was stable at 3c. to 3¼c. per pound. Availability continued excellent, while demand was called moderate.

Brown, Sap Crystals—Ample supplies and reasonably good inquiry prevailed for this material last week. Prices were unchanged.

Brown, Sienna—Both raw and burnt grades remained readily available during the week. Quotations were firm all along the line, continuing at 3¾c. to 15c. per pound for burnt sienna and 4c. to 12¾c. for the raw product. Business was normal.

Brown, Synthetic Iron Oxide—This section was without feature during the past week. Quotations continued at 12c. to 12½c.; demand was good, and supplies were abundant.

Brown, Umber—No change in the market position of this pigment material was noted during the period under review. Listings remained on a par with levels of former weeks. Inventories were ample and consuming inquiry was described as moderate.

Brown, Vandyke—The price picture was without variance, continuing firm. Supply and demand were similarly unchanged, remaining ample and moderate, respectively.

Lead Pigments—Although these materials continued to be seriously hampered by the critical shortage of pig lead last week, there was a more hopeful air in the market following the recent enactment of H. R. 6489, permitting the duty-free import of lead until June 30, 1949. It was believed in some quarters that this measure might possibly produce some relief in the supply situation within the near future by encouraging the importation of lead stocks. Meanwhile, the market position of pigments was relatively unchanged. Demand was said to be steady. Prices of red, white and blue leads remained firm for all grades.

Litharge—The price structure held fast at a range of 19¼c. to 20¼c. per pound. Supply and demand were similarly unchanged.

Lithopone—Despite the widespread use of this material because of the persisting shortage of titanium dioxide, some easement in the supply situation was noted last week. However, producers pointed out that the situation remained tight. Demand was somewhat off from previously active levels. Prices weree stable at 6⅜c. to 6¾c. per pound for the ordinary grade and 8¼c. to 8½c. for the titanated product.

Red, Indian—A firm market tone prevailed for this pigment during the week, prices continuing at 11½c. to 11¾c. per pound. The supply situation was still on the short side, despite recent easement of Spanish oxide stocks. Demand was reported active.

Red, Iron Oxide—Availability of all but the top grade of Spanish oxide was said to be sufficiently improved to permit shipments in reasonable volume on a one-month basis. Persian Gulf, a small-quantity item, was being supplied regularly to all old customers in limited amounts. Price-wise, Spanish grades ranged from 5¼c. to 6½c. per pound, while Persian Gulf oxide continued to command 6¾c. to 7c.

Red, Synthetic Iron Oxide—Still under pressure of an active demand, this material was generally described as tight, although not critically short. Demand was excellent. Prices remained at 11½c. to 11¾c. per pound.

Red, Turkey—No change in price was noted during the week. Supplies were good. Demand was fair.

Red, Venetian—The price structure continued stable at a range of 3½c. to 4 9/10c. per pound. Stocks were reported to be readily available. Business was said to be normal.

Yellow, Iron Oxide—In abundant supply during the period under review, this material was on moderate call. Prices for all grades continued at former levels.

Yellow, Synthetic Iron Oxide—The price range of 9c. to 9¼c. per pound continued in force during the week. Supplies were abundant. Business was fair.

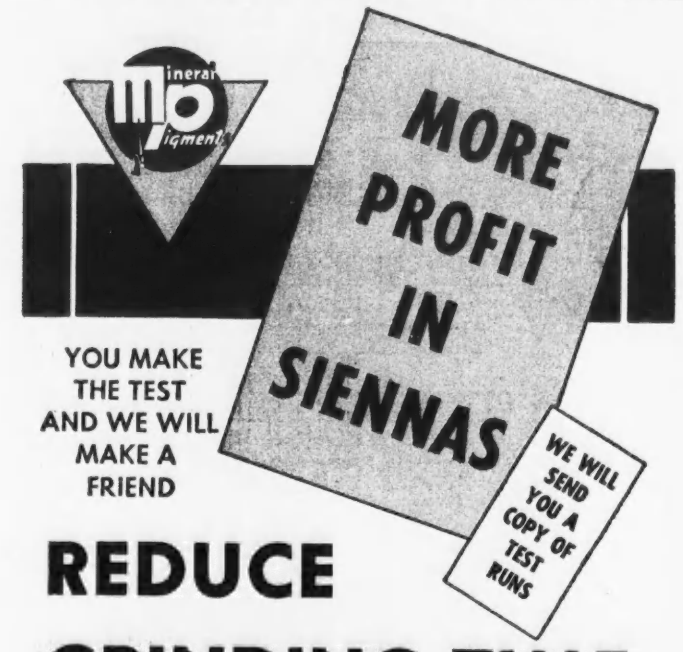
Fillers and Extenders

Calcium Carbonate—Importations last week totaled 300 bags of whiting from Bristol. The market was otherwise without feature.

China Clay—Arrivals during the week aggregated 350 tons of blue ball clay and 250 tons of China clay from Bristol.

Magnesium Silicate — Although there were reports in some quarters of balanced

For Late Market Developments, See Page 4



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conditions, talc producers stated that they had no basis in fact. The situation was still said to be extremely tight, with inventories under pressure of a tremendous demand. Mills were running six months behind on orders. One manufacturer reported that production, lost as a result of a recent fire in one mill, had been made up by stepped-up output at other plants. Meanwhile, a new fibrous talc manufacturer was believed ready to enter the field on or about September 1, but the amount of material to be produced was said to be insufficient to make up the great gap between supplies and requirements. Arrivals last week totaled 325 bags of talc from Genoa.

Mica—The market position of this material was unchanged last week. Prices were firm. Supplies were ample. Demand was normal. Importations during the period aggregated 87 cases and 16 blocks of mica from Rio de Janeiro.

Pumice—Inquiry continued steady during the past week. Supplies were ample. Prices remained unchanged. Arrivals last week totaled 12,896 bags of powdered pumice from Lipari.

Synthetic Resins

Alkyd Resins—Producers remained noncommittal last week on the subject of price guarantees, inaugurated recently by one alkyds manufacturer. Meanwhile, quotations settled down following recent adjustments on four lines of resins. Inquiry was still said to be slow. Stocks were reported adequate to present needs, although the continued shortage of phthalic anhydride was still holding back all-out production of alkyds.

Cumarone-Indene Resins — Floor tile makers continued to make great demands for increased quantities of these resins, particularly the lighter grades. Prices were firm. Supplies were limited.

Ester Gums—The price structure was stable in the wake of decreases for modified pentaerythritol esters and glycerol esters of hydrogenated and polymerized rosin. The supply situation remained good. Demand was likewise unchanged.

Film Scrap—Prices on both colored and water-white grades declined ½c. per pound last week, as business was generally reported dull. Export demand, however, continued exceedingly active, but producers stated that sales were difficult to consummate because of the persisting dollar shortage abroad. It was the view of at least one supplier that conditions were more promising for a resumption of active business with foreign countries, and that an increase in sales would develop shortly. Supplies, meanwhile, remained excellent. Listings last week were quoted at 13c. per pound for the colored grade and 14c. for the water-white.

Maleic Resins—The price structure was stable at lower levels in the wake of recent reductions. Balanced conditions continued to prevail in this section, despite the persisting shortage of maleic anhydride.

Melamine Resins—Prices were stable following recent increases on one line. Demand was normal. Supplies were unchanged.

Phenolic Resins—Pure phenolics were firm at higher listings following recent increases. Modified grades were similarly stable at lower levels in the wake of reductions on one line. The supply-and-demand picture was good for all grades but those derived from cresol.

Urea-Formaldehyde Resins — Stability featured this section last week. Supply and demand were without variance.

Vinyl Resins—Prices were firm following the recent 3½c.-per-pound increase on one line of vinyl modifiers. The market was otherwise without feature.

Natural Resins

A downward trend in primary centers produced a comparable weakening on the New York market last week, resulting in a decline of ½c. to 2½c. for a variety of natural resins. All grades of Congo copal were down 1c. per pound. Philippine copals uniformly dropped 1½c. Macassar DDB was off a similar amount, while MA and loba C grades sank 2½c. and ½c. per pound, respectively. Batavia dammar E was lowered ½c.; Singapore No. 1 was decreased 1c., and elemi was also reduced 1c. per pound. Business was generally believed to be experiencing a summer lull. The situation on Macassar MA was an interesting development. Futures were reported considerably below New York quotations, and dealers in this country described so-called prompt-shipment listings as nominal because of the dearth of that material. Current quotations on affected grades follow:—Congo copal No. 1, 25c. to 27c. per pound; Congo copal No. 2, 20c. to 22c.; Congo copal No. 3, 16½c. to 17½c.; Macassar DBB, 21c. to 22c.; Macassar MA, 21c. to 22c.; Macassar loba C, 27c. to 28c.; Philippine, first quality, 24½c. to 26½c.; Philippine, second quality, 19½c. to 21½c.; Philippine, third quality, 16½c. to 18½c.; Batavia dammar E, 17½c. to 18½c.; Singapore No. 1, 28c. to 29c.; Singapore No. 2, 23c. to 24c., and elemi, 24c. to 26c. per pound. Other gums were maintained at former quotations. Yacca, however, was said to have exhibited some mild strength at foreign markets, but the gains were only fractional and were not reflected in New York listings. Most grades were readily obtainable, although Macassar MA and Singapore No. 2 were generally believed scarce. Arrivals last week totaled 528 bags of copal from Singapore and Antwerp, 704 bags and 50 cases of dammar from Singapore and 1,089 bags of karaya from Bombay.

Shellac—Firmness on the Calcutta market combined with the growing shortage of the better grades of orange lac drove up lemon grades 1c. to 2c. per pound to levels of two weeks ago. Lemon No. 1 advanced 1c. to a range of 68c. to 69c., while the No. 2 grade was up 2c. at 67c. to 68c. per pound. Other prices were unaffected. Bleached grades were in good supply. Business was still said to be quiet, buyers continuing to limit purchases to hand-to-mouth quantities. Arrivals during the week aggregated five bags of shellac from Bombay, and 1,590 bags from Bangkok.

Miscellaneous Materials

Casein—A stronger tone in the Argentine, induced by the reluctance of producers to part with material at prevailing prices, resulted in a ¼c.-per-pound advance on New York imported casein quotations. Paradoxically, however, certain dealers who had previously been quoting as high as 29½c. per pound came down to narrow the range. The result of this price activity in two directions last week brought about a market price of 28¼c. to 29c. per pound on Argentine casein. Domestic casein, however, was firm at 31c. to 33c. per pound, but the listing was regarded as entirely nominal because of the severe decline in production. Meanwhile, business on both domestic and imported casein was practically at a standstill. There was a strong feeling in the market that a severe casein shortage would develop in this country by September.

Substantiation of this view was provided by the May production report, released during the week by the Bureau of Agricultural Economics. Production of domestic dry casein in May totaled 2,170,000 pounds, which, except for 1945, was the lowest output for the month in 22

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years. May production was 43 percent below the 3,805,000 pounds of a year ago and 34 percent below the five-year average. In every month this year casein production has been substantially lower than either last year or the corresponding five-year average. For January through May, output aggregated 6,135,000 pounds, compared with 14,097,000 pounds in the same period a year ago and 9,672,000 pounds during the 1942-1946 average, decreases of 56 percent and 37 percent, respectively. Stocks of casein held by driers at the end of May totaled 2,850,000 pounds, the smallest stocks for the date in eight years. Inventories for May 30 were 25 percent below the 3,800,000 pounds recorded on the same date a year ago. Arrivals last week aggregated 3,542 bags of casein from Buenos Aires.

Glue — Inventories of bone glue producers were still reported to be improving last week. The situation was said to be so much better that makers believed that they would catch up with all back orders within the next few weeks. The story on hide glues was quite different, however, stocks continuing extremely short. Demand was good for both types of materials. Prices were firm. Importations during the week aggregated 300 bags of bone glue from Rio Grande and 10,269 bags of bone grist from Rosario.

Graphite—Importations during the week totaled 1,250 bags of graphite from Colombo.

Gypsum—Arrivals last week aggregated 16,676 bags of crude gypsum from Breton, Waston and Dingwall.

Lecithin—Producers reported a decline in buying inquiry last week. It was pointed out by at least one supplier that this was nothing more than a seasonal trend, as this is customarily the time of year for lecithin consumers to check their inventories. The supply situation was described as good, with sufficient stocks reported available for prompt shipment. Following are current market quotations: —Edible, technical, bleached, drums, nonreturnable, carload, works, 17½c. per pound; bleached, l.c.l., same basis, 20c.; unbleached, carload, same basis, 16½c., and unbleached, l.c.l., same basis, 19c. per pound.

Soybean Protein—The supply-and-demand picture remained relatively unchanged during the week. Prices were similarly without variance. The chemically-isolated grade is currently quoted at a range of 26½c. to 30½c. per pound, while the mechanically-refined product commands 6 1/10c. to 6½c. per pound.

Naval Stores

The Chemical and Health Products Branch reported that production of rosin in Greece in the 1947-1948 crop year totaled 5,904 metric tons, which was larger than the figure of 5,190 tons for the previous year but less than one-third of the 1939-1940 output of 18,500 tons. Production of turpentine during 1947-1948 was 1,584 tons, compared with 1,295 tons in 1946-1947 and 5,200 tons in 1939-1940.

Exports of rosin from Greece during the 1947-1948 crop year aggregated 5,388 tons, opposed to 16,521 tons in 1939-1940. Italy was the largest purchaser. Principal customer of Greek turpentine exports was also Italy. During 1947-1948, they totaled 1,290 tons, compared with 3,902 tons in 1939-1940.

The records of the gum naval stores markets over the week ended July 9 were as follows:—

Gum Rosin

	Price per 100 lbs.						
	Savannah Exchange (Low of range)					c.l., f.o.b. N.Y.	l.c.l., ex whse.
	Mon.*	Tues.	Wed.	Thurs.	Fri.	Friday	
B	...	$6.50	$6.50	$6.50	$6.50	$8.15	$8.90
D	...	7.00	7.00	7.00	7.00	8.25	9.00
E	...	7.00	7.00	7.00	7.00	8.25	9.00
F	...	7.25	7.25	7.25	7.25	8.25	9.00
G	...	7.25	7.25	7.25	7.25	8.35	9.10
H	...	7.30	7.30	7.30	7.26	8.35	9.10
I	...	7.30	7.30	7.30	7.30	8.35	9.10
K	...	7.30	7.30	7.30	7.30	8.35	9.10
M	...	7.30	7.30	7.30	7.30	8.35	9.10
N	...	7.30	7.35	7.35	7.32	8.35	9.10
WG	...	7.38	7.40	7.42	7.32	8.50	9.25
WW	...	7.55	7.50	7.54	7.52	8.60	9.35
X	...	7.55	7.50	7.54	7.52	8.60	9.35
	Drums						
Sales	...	375	560	508	600		
Receipts	...	465	432	350	609		
Shipm'ts.	...	...	...	...	815		
Stocks	...	9,983	10,435	10,785	10,579		

Gum Turpentine

	Savannah Exchange (Bulk)					New York (ret. tanks, f.o.b. N.Y. ex whse. (7 lbs.)	dms.) l.c.l. (7 lbs.)
	Mon.*	Tues.	Wed.	Thurs.	Fri.	Friday	
Per gal.	...	.40¼	.40¼	.40¼	.40¼	.47	.59
Sales, bbls.	...	188	201	...	...		
Receipts, bbls.	...	146	...	143	2,067		
Shipments, bbls.	...	420	...	58	2,207		
Stocks, bbls.	...	5,961	5,961	6,046	5,906		

* No market.

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Resin Making Methods In Germany Reported

German manufacture of phenol and formaldehyde resins for use in thermosetting molding compositions and laminates, surface coatings, adhesives, ion exchangers, and castings is described in a report now on sale by the Office of Technical Services, Department of Commerce. The report was prepared by Richard D. Dunlop, Monsanto Chemical Company, Springfield, Mass., following an investigation in Germany under OTS sponsorship.

Though the uses of phenol and formaldehyde resins in Garmany are similar to American applications, some of the compositions and manufacturing practices appear novel, Mr. Dunlop states. Of the more important and interesting German developments he selects the following:—the development (or attempts to develop) of the continuous production of molding powders by various methods; the development of a bearing utilizing a phenolic molding composition in place of balls or rollers, and a method of injecting this plastic into the bearings; the preparation and use of air drying, oil-free phenolic coatings for wood; The development of plasticized, but oil free phenolic coating resins through utilization of the reaction (butylation) of butyl alcohol and phenol methylol compounds; the standardization of phenolic molding compositions throughout the industry; and various methods used to measure the flow and curing properties of molding compositions.

Mimeographed copies of the report (PB-81276, "The Manufacture of Phenol Formaldehyde Resins and Molding Powders," seventy-five pages) sell for $2. Orders should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order payable to the Treasurer of the United States.

American Polymer Corp. Publishes New Data Sheet

American Polymar Corporation, Peabody, Mass., has published a new technical data sheet in its "New Tools for Industry" series. Included is a detailed description of its polyvinyl acetate copolymers in solution form, which the company recommends for use in laminating compositions, metal and cloth lacquers, oil resistant paints, caulking compounds and other products. A copy of the data sheet may be obtained by requesting number P-7 from the American Polymer Corporation, 101 Foster street, Peabody, Mass.

GE Appoints Gibson Plastics Div. Manager

The General Electric Company, Pittsfield, Mass., has appointed Robert L. Gibson manager of its plastics division, to succeed George P. Lehmann, who has been assigned to the personal staff of Dr. Zay Jeffries, vice-president of the company.

Mr. Gibson, who was formerly manager of the personnel and the advertising and sales promotion divisions of the company's chemical department, has been associated with General Electric since 1925. He was assistant to the vice-president in charge of advertising and publicity for the company before being transferred to the chemical department in 1945.

Trade Briefs

David A. White, jr., has been appointed director of public relations of the National Gypsum Company, Buffalo, N. Y.

Rosin exports from Honduras in the fiscal year 1946-47 totaled 589,000 pounds, valued at $164,000.

John J. Hickey has been appointed advertising manager of paint products of the National Gypsum Company, Buffalo, N. Y.

Casein production in France during 1947 totaled only 2,876 metric tons, forcing that country to import sufficient quantities to meet its annual needs of about 5,000 tons.

Turpentine exports from Honduras during the fiscal year 1946-47 totaled 149,000 pounds, compared with 156,000 pounds in the previous year. The United States received all turpentine exports during the 1946-47 year.

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50 Years in Industry

William Rocamora, head of the casein operations of F. H Paul & Stein Brothers, Inc., importer, New York, celebrated his fiftieth anniversary in the field of importing and exporting chemicals and allied materials yesterday. For the past forty years he has specialized in casein buying and selling, and during the war was a member of the casein importers industry advisory committee.

Goodrich Changes Form Of Rubber Accelerator

The B. F. Goodrich Chemical Company, Cleveland, Ohio, is now producing its rubber accelerator, "Good-rite Erie" in a pelletized form. The company has announced that in the future the material will be supplied in liquid form only in limited quantities and upon special request.

Advantages claimed for the new form, which is a dustless, free flowing black pellet containing 50 percent active agent absorbed on carbon black, are that it has good chemical stability and that its form makes it unnecessary to prepare a rubber masterbatch of the accelerator prior to use in a final compound. It is also noted that the pellet form allows for more convenient handling and warehousing.

Puget Sound Paint Club Plans Third Golf Tourney

The Puget Sound Paint, Varnish and Lacquer Association, Seattle, Wash., will hold its third golf tournament of the current season at the Sand Point Country Club on July 30. Tee-off time will be at 1:30 p.m., and dinner will be served at 7 p.m. Reservations should be mailed to Jack Finley, Aluminum Company of America, 1411 Fourth avenue building, Seattle.

Processed Chemical Adds to Sales Force

Processed Chemical & Coatings Corporation, industrial finishes manufacturer, Brooklyn, N. Y., has added Ted Schuster and Fred Schoeman to its sales force. Mr. Schuster will represent the company in Pennsylvania, Maryland, Virginia and the District of Columbia, and Mr. Schoeman will be sales representative in New York and New England.

Paraffine Companies Absorbs Plant Works

Plant Rubber & Asbestos Works, formerly a corporation wholly owned by the Paraffine Companies has been absorbed by the parent organization and has been made its insulation division. R. H. Chase has been appointed manager of the new division. He was formerly vice-president and general manager of the Plant Rubber & Asbestos Works.

Trade Briefs

Perkins Glue Company, Lansdale, Pa., has published a booklet describing various glue room items of interest to users of these products.

Harry J. Aldrich, secretary of Spencer Kellogg & Sons, Inc., has been appointed chairman of the home phase of the 1948-49 program of the Safety Council of Western New York. The program is designed to reduce accidents in the home.

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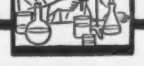

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Oils, Fats and Waxes

Market for oils and fats continued weak and trend of prices was downward. Edible oils were easier and reflected the closeness of new crop season oils which were sold at substantial discounts below prompt deliveries. Lower prices carried the index down to 226.8, against 244.6 a month ago and 182.8 a year ago.

Crude cottonseed oil registered the biggest loss and was off 2 cents for July shipment while immediate shipment declined 1½ cents. This drop was reflected in bleachable cottonseed oil futures, especially the July option which broke sharply under moderate liquidation during the week. Corn oil while in limited supply declined with competing oils and was cut 2 cents per pound. Peanut and soybean oils also were easier, but declined fractionally. Trading in refined edible oils was inactive and were reduced with crude. Coconut oil was quiet and unchanged for prompt shipment, but the market was easy for forward delivery with lower copra which was off $10 per ton.

High grades of tallow and grease were in fair demand and trading took place at unchanged prices, while low grades received little attention and with supplies liberal, quotations of these grades were easy and could have been shaded on carlot business. Other animal oils were unsteady and grease oils and oleo oil were reduced 1 cent per pound.

There was no improvement in the demand for linseed oil at the recent decline and lack of buying interest for other drying oils, kept this group in an unsteady condition. Tung oil further declined and moderate sales were reported fractionally lower. Oiticica oil continued inactive and increased offers for prompt and forward delivery were available at lower levels. Inquiry for refined fish and dehydrated castor oils continued slow.

Market Trends

Prices Advanced

None

Prices Reduced

Copra, $10 per ton.
Corn oil, 2c. per lb.
Cottonseed oil, 2c. per lb.
Grease oil, 1c. per lb.
Oiticica oil, ½c. per lb.
Oleo oil, 1c. per lb.
Peanut oil, 1c. per lb.
Soybean oil, ½c. per lb.
Tung oil, ½c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
226.8	231.5	244.6	182.8

(For Current Prices see Page 9)

Cottonseed Oil

Drastic decline in the July option featured the bleachable cottonseed oil futures market last week. Moderate liquidation in this option caused losses of over 300 points. Deferred positions were available at substantial discounts and scored only moderate declines. No oil was tendered for July delivery, but it was predicted that a substantial volume would be delivered before noon July 15, the closing date. Trading was light and some short covering took place on a scale downward.

Crude cottonseed oil was easy and new crop oil weakened prices for immediate shipment. Sales of occasional tankcars for immediate delivery were reported at 30½c. and 31c. per pound, f.o.b. mills a decline of 1½c., while straight July shipment was sold at 28c. and was 27c. bid. August shipment was offered at 26c. tankcars, and September 23c.

Government cotton crop report indicated an area of 23,653,000 acres under cultivation July 1, compared with 21,500,000 acres last year and the 1937-48 average of 23,274,000 acres.

Memphis—Trading in vegetable oils continued light. Market was entirely nominal. Crude cottonseed oil was quoted at 30c. per pound, tankcars, f.o.b. mills Valley, prompt shipment, and soybean oil at 24c., same basis. Cottonseed meal, 41 percent, quoted at $87 per ton, Memphis. Cottonseed hulls held at $12.50 per ton, bulk, same basis. Soybean meal for July shipment about exhausted and few cars available at $95.50, Valley.

Prices of refined bleachable prime summer yellow cottonseed oil in tankcars on the N. Y. Produce Exchange for the week ended July 9 follow:—

	Sales	High	Low	Close
		Cents per pound		
July	72	37.50	33.50	34.25@34.50
September	146	25.80	24.80	24.88S
October	27	24.50	23.70	23.81S
December	32	23.85	23.25	23.35@23.40
January	..	....	....	22.90@23.50
March	2	23.25	23.25	23.00@23.15
May	..	....	....	22.90@23.00

Total sales—243 tankcars.

Crude oil was reported sold at 30½c. and 31c. per pound, tankcars, f.o.b. mills, for immediate, and 28c. for straight July shipment.

Linseed Oil

New business continued slow last week and activity was confined to the delivery of moderate quantities against former orders. Market remained on a steady basis and reflected the firmness of seed. Demand for seed for spot and prompt delivery was reported quite active and trading took place at $6.10 per bushel, f.o.b. Midwest. Inquiry for other drying oils also lacked snap. Tung oil continued unsettled with sales noted at 22c. and 22¼c. per pound, tankcars New York basis for prompt and forward delivery. Oiticica oil was inactive and easier under increased offerings and quotations could have been shaded on firm bids for carlot business.

Flaxseed production was estimated by the Department of Agriculture at 43,662,000 bushels as of July 1 from 4,514,000 acres under cultivation. This compares with the 1947 production of 39,763,000 bushels and the ten-year average of 26,756,000 bushels. Yield per acre was indicated at 9.7 bushels.

Purchases of 2,000,000 pounds of raw linseed oil were made at 27.20c. per pound, f.o.b. vessel New York by the Department of Agriculture, June 17, five tankcars at 28½c. per pound, f.o.b. Texas, June 23 and 300,000 pounds at 28c. per pound, f.o.b. New York Harbor, June 29.

Crop conditions in Canada were critical over large areas of the prairie provinces, because of lack of moisture the Bureau of Statistics stated in a survey of crop prospects. Prospects were generally fair to good in Manitoba, Eastern and Southwestern Saskatchewan and Southern Alberta.

Argentine flaxseed producers have been informed by the National Economic Council that the price to be paid for the 1948-49 crop will not be greater than the current 30 pesos per 100 kilograms ($2.27 per bushel) basis, bagged on track or alongside boat, Buenos Aires. Indications are that the Council prefers expansion in edible oilseed acreage. Flaxseed acreage has decreased rapidly since the early 1940's. The area planted to this crop in 1947-48 was slightly more than half the 1935-39 average. In contrast to flaxseed, sunflower acreage was more than five times the prewar average.

Uruguyan Government has issued a new decree opening a credit of 1,000,000 pesos (United States equivalent $527,000 at the controlled rate of exchange) to purchase flaxseed for 1948-49 planting, which began in July. Crushing mills must set aside sufficient seed of desirable varieties to meet farmers' planting requirements. The 1,000,000 pesos will be used to finance small producers. The government has fixed the price that crushers must pay producers for flaxseed from the 1947-48 crop. The sum of 330 pesos per metric ton ($4.41 per bushel) is paid for seed delivered to mills by farmers cultivating more than 250 hectares (618 acres) and 350 pesos ($4.68) to those planting less than 250 hectares. The difference between the two prices is to be subsidized by the Bank of the Republic from the fund "Diferencias de Cambio" (profits derived from exchange transactions). The official export price for linseed oil f.o.b. Montevideo, is now 1.05 pesos per kilogram (31.2c. per pound, converted at the special rate for linseed oil). Since this is higher than the world market price, farmers were somewhat alarmed because the mills were slow in buying their seed. Fear of a decrease in the 1948-49 acreage prompted the government to establish the price for flaxseed from the 1947-48 crop. It is now expected that the 1948-49 area will equal the 464,155 acres planted in 1947-48.

Minneapolis—Demand for linseed oil held up fair to good on both deferred and immediate shipment. Most of the business on a spot basis was in warehouse lots but there were scattered sales made in small round lots to the paint trade. Oil prices slipped to 27.4c. in tanks, zone 1 for July-August shipment and September forward quoted at 27.2c. a pound. Large paint manufacturers were fair to good buyers of deferred oil on the decline. Production continued heavy with one large crusher shut down for a vacation period and the rest maintaining a heavy rate to meet the constant stream of shipping instructions coming from the trade. Mills were anywhere from two weeks to a month behind on shipping orders and complained about slow movement of tankcars.

Shipments of linseed oil, in pounds, were as follows:—

	1947-48	1946-47
This week	6,060,000	2,160,000
Since Sept. 1	311,984,000	228,980,000

Flaxseed — Active inquiry was reported

For Late Market Developments, See Page 4

for spot and prompt delivery. Trading was moderate. Market was steady and unchanged.

Minneapolis—A heat wave over the flax belt was doing damage to the crop but it is as yet too early to make any kind of an evaluation of the extent of damage suffered. Much of the crop was caught in the late bloom stage and in the milk and that may seriously curtail production per acre in the areas hardest hit. The trade was waiting with a good deal of interest issuance of the government's July 1 crop report, hoping for a good increase in acreage and expecting between 4,500,000 and 5,000,000 acres to be planted to flaxseed. Weather prior to the heat wave was almost ideal for flaxseed with good surface moisture and adequate supply of subsoil moisture in most areas and cool days and nights giving the crop an excellent hardening period against hot weather. It is hoped that those ideal conditions that prevailed in June will have some effect on the total outturn and that preparation for the hot weather was sufficient to carry much of the crop over to a good maturity. The cash situation was unchanged at $6.10 for both spot and to arrive offerings. Demand was brisk and receipts from day to day held at a high level.

Shipments of flaxseed in bushels were as follows:—

Bushels—	Receipts 1947-48	Receipts 1946-47	Shipments 1947-48	Shipments 1946-47
This week	339,200	32,300	15,300	5,100
Since Sept. 1	23,123,300	919,900	4,004,500	4,811,500

Other Vegetable Oils

Coconut—Buying interest continued inactive and quotations while unchanged were entirely nominal. Crude oil was quoted at 23c. per pound, tankcars, f.o.b. Pacific coast, July shipment, 22c. for first half August and 21½c., straight August.

Copra—This market was easier and quotations were off $10 per ton. Inquiry was light. Sales afloat were reported at $275 per short ton, c.i.f. Pacific coast.

Corn—While offerings were limited, the market was easier with competing oils and declined 2c. per pound. Crude oil was offered at 30c. per pound, tankcars, f.o.b. mills, for July shipment. August was sold at 26c. Refined oil was sold at 35c., same basis, and was offered thereat.

Oiticica—An easy tone prevailed in this market under increased offerings and lack of buying interest. Prices were easy and could have been shaded on carlot business. Liquid was offered at 19½c. per pound, tankcars and drums, carlots, New York basis for prompt and forward delivery. Sales were reported at 20c. to 21c. per pound, drums, less carlots.

Olive—Hand-to-mouth trading was reported for spot delivery. Interest in shipments was quiet. Spanish oil was unchanged at $4.50 per gallon, drums, duty paid on the spot and Moroccan at $3.90 to $4.

Peanut—Trading was quiet and the market more or less nominal. Crude oil was quoted at 32c. per pound, tankcars, f.o.b. mills for immediate shipment and at 30c. for straight July shipment, with 27½c. bid. Refined oil was nominal at 37c. per pound, tankcars, delivered East.

Rapeseed—This oil received little attention of late and prices were entirely nominal. Tankcars were quoted at 28c. per pound, New York.

Soybean—Prices were easier and off ¼c. to ½c. per pound. Demand was light and spotty. Sales were reported at 23¾c. per pound, tankcars, f.o.b. mills, for July shipment. August was quoted at 23¼c. and September, 22½c. October was sold at 19c., same basis. Refined edible oil was lower and nominal at 27¾c. per pound, tankcars, delivered East. Refined technical grades also were easier and could have been shaded on firm bids.

Prices of refined bleachable soybean oil, in tankcars, on the N. Y. Produce Exchange for the week ended July 9 follow:—

	Sales	Cents per pound—High	Low	Close
July	..	....	....	27.25A
September	..	....	....	24.50A
October	..	....	....	22.75A
December	..	....	....	22.25A
January	..	....	....	22.25A
March	..	....	....	22.25A
May	..	....	....	22.25A

Sales—None.

Tung—Moderate volume of business was reported at lower prices. Sales were reported at 22c. per pound, tankcars, New York basis, for prompt and forward delivery. Trading also was reported at 22¼c., though offers were heard at the close at the lower level. Drums were reduced at 23¼c. to 23½c. per pound, carlots, depending upon seller. Department of Agriculture purchased 15 additional tankcars of domestic tung oil at 25c., the support price, f.o.b. works, during the period June 17-29.

Fats and Greases

Lard—Market unsteady and registered slight declines. Demand was reported limited to actual requirements. The Office of International Trade announced July 1, an outright ban on licenses to applicants who have not previously received permission to export lard to Cuba and set up this licensing priority pattern to spread

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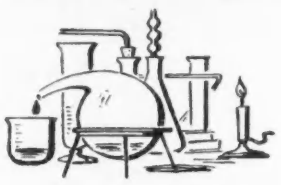

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Animal Oils

Grease Oil—Prices were easier with the reduced cost of low grades of pressing stock. Demand was slow. No. 1 was quoted at 22c. to 22½c. per pound, drums, according to quantity, extra winter strained, 23c. to 23½c. and prime burning, 23¾c. to 24c., same basis.

Oleo Oil—Market was easier and prices were off about 1c. per pound. Trading was light and spasmodic. Extra oil was quoted at 30c. per pound, tierces, New York delivery.

Oleo Stearine—Demand was reported chiefly for small lots. Prices were unchanged and nominal at 29c. to 30c. per pound, barrels, as to seller and quantity.

Fish Oils

Whale—Reports from Tokyo stated that the Japanese government was authorized to allocate 17,800 metric tons of whale oil of the 1947 catch to food and industrial factories.

Fatty Acids

Red Oil—Demand of late has increased for prompt requirements. New business was moderate, while the request against former orders was more active. Quotations were maintained at former levels.

Tallow Fatty Acid—Some 220,000 pounds of tallow fatty acid and 132,000 pounds of olein were allocated to France for commercial procurement in place of the same total of grease and tallow previously allocated, it was announced by the Department of Agriculture.

Cake and Meal

Cottonseed Meal—There is little or no buying interest in the market and, on the other hand, not much selling interest, because of scarcity of supplies. Sacked 41 percent meal was offered at $87, f.o.b., southeastern mills, and 41 percent loose slab cake at $80, f.o.b. Valley mills, July shipment. No new crop trading of consequence is reported east of the Mississippi River.

Linseed Meal—Trading was limited, with the bulk of offers being made for spot delivery by resellers slightly below crushers' quotations.

Minneapolis—Meal market was mostly in the hands of the secondary trade with a $69 price (bulk) quoted by resellers. Crushers were offering little or nothing in the spot market and quoted at $71 per ton for July shipment and asked $1 per ton for August. Demand for forward meal was rather slow but scattered sales were reported. Instructions prompt on maturing contracts and shipments were at a high level for this season.

Shipments of linseed meal, in pounds, were as follows:—

	1947-48	1946-47
This week	9,970,000	6,200,000
Since Sept. 1	106,100,000	59,702,000

Peanut Meal—Demand has completely dried up, and sacked 41 percent was available at $74, f.o.b., southeastern mill points. Unless demand improves, resellers will undoubtedly quote lower prices in order to furnish shipping instructions in acordance with contract specifications.

Soybean Meal—Sacked 41 percent was offered at $94 Memphis for August and in limited volume at $92 in North Carolina for July shipment. The Decatur market is holding steady at around $92 sacked basis for July and August shipment.

Waxes

Beeswax—Buying interest showed no improvement last week. Most sales were reported for small lots for immediate needs. Offers of crude wax were light but were expected to increase later in the month. Quotations were without change and fairly steady.

Carnauba—Consuming inquiry continued dull and increased offers for shipment at narrow declines, gave the spot market an easier tone, though quotations remained more or less nominal. Chalky, No. 3, was quoted at 68c. to 69c. per pound, on the spot, North country, No. 2, 75c; North country, No. 3, 69c. to 70c., and refined, 74c. to 75c. Yellow, No. 1, was unchanged and nominal at $1.10 and No. 2 at $1.08.

Ouricury—While trading was inactive, the spot situation remained steady with the firmness at primary centers. Crude was well held at 66c. to 67c. and refined at 70c. to 71c. as to quantity.

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CCC Officials Named Under New Charter

Secretary of Agriculture Charles F. Brannan has appointed an interim board of directors for the Commodity Credit Corporation, to until October 1, 1948, under the provisions of recently enacted legislation establishing a Federal charter for the corporation.

In addition to Mr. Brannan, whose inclusion on the interim board is provided in the charter legislation, others appointed to serve on the five-man board are:—Albert J. Loveland, under secretary of agriculture; Ralph S. Trigg, administrator of the Production and Marketing Administration; Frank K. Woolley, deputy PMA administrator; and Lionel C. Holm, executive assistant to the PMA administrator.

At its first meeting, the interim board elected the following officers:—chairman of the CCC board, Mr. Brannon; president of CCC, Mr. Trigg; vice-president of CCC, Mr. Woolley.

The new board also appointed the following executive staff, which will devote full time to the affairs of the corporation under the provisions of the authorizing legislation:—general manager, Elmer F. Kruse, formerly assistant PMA administrator for Commodity Credit Corporation operations; controller, Martin J. Hudtloff, formerly controller for CCC and for the Production and Marketing Administration; treasurer, James J. Somers, formerly assistant CCC treasurer; assistant secretary, Marion M. Crumpler, formerly assistant CCC secretary.

British Sheep Dip Makers Elect

The Association of British Sheep and Cattle Dip Manufacturers has chosen the following officers for the 1948-9 year:—Chairman, D. O. Marshall of Osmond & Sons, Ltd.; vice-chairman, V. G. Gibbs, of William Pearson, Ltd.; treasurer, W. E. O. Walker-Leigh, of Cooper, McDougall & Robertson, Ltd.

British Guiana Imposes Limited Import Controls

The government of British Guina has forbidden the importation of oils and fats from areas other than the United Kingdom and Colonies group and war shattered countries. The restriction, however, does not apply to oils and fats required for domestic manufacture of soap, margarin and allied products, oil for medicinal purposes or butter.

Other items included on the list of imports which must come from the specified areas are:—Spices, except pepper, coriander, turmeric and similar varieties; gasoline, except aviation; kerosene oil; perfumes and cosmetics of all kinds, except for professional use; perfumed spirits; soap in laundry hard bars; hair tonics; hair fixatives; hair dyes; shampoos; medicinal glassware; nail polish and remover, and cuticle remover.

Trade Briefs

Rosin imported into Denmark during 1947 totaled 2,573 metric tons, and turpentine imports reached a total of seventy-nine tons for the year.

Leroy J. Collins, of Spencer Kellogg & Sons, Inc., Buffalo, N. Y., has been elected to the board of directors of the Western New York Safety Conference.

General Electric Company has published a booklet describing the products manufactured by the plastics division, resin and insulation division, metallurgy division and compound division of its chemical department.

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15—Copper Jacketed or Coiled Vacuum Pans or Cookers from 50 Gal to 1,500 Gal.
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1—Dover all steel Evaporator 800 gal., 125 PSI.
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1—Readco Stainless Steel 142 gal. Double Arm Mixer; 20 H. P. motor.
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10—J. H. Day Ro-Ball Sifters No. 82; two separations; screen size 40"x120" with 3 H.P. motors.
30—Centrifugal Extractors by Tolhurst, American, Bird, Barrett others from 20" to 72" in all metal and types—state requirements.
30—Plate and Frame Filter Presses by Shriver, Independent, Sperry, 12" to 42" closed and open delivers—please state requirements.
30—Sweetland Filters, No. 2, 7, and 12.
9—Rotary Vacuum Filters, Oliver, Portland, others up to 8'x12'.
J. H. Day 5 Roll Hi-Speed Mills 12"x32".
25—Day, Ross, Kent, Lehman, 3 Roll Mills 12"x30" and 16"x40".
1—Raymond Low Side 4 Roller Mill complete.
10—Fitzpatrick Model D Stainless Comminuting machines.
4—MIKRO Pulverizers Bantam No. 1, 2, and 4, some stainless.
Raymond Mills No. 0, 000, No. 0000, 45, 50 and others.
Hammer Mills by Gruendler, Williams, Jay Bee, Stedman, Prater, Jeffrey.
4—Day Ball Mills, 20"x36" to 36"x36".
2—Patterson 6'x5' Silex Lined Mills.
1—Manganese Lined Ball Mill 33"x42".
1—Stearns Roger Unlined Ball Mill—3'x3'.
1—Allis Chalmers Manganese Lined Ball Mill 4'x8'—40 HP.
4—Hardinge Conical Ball Mills in standard sizes.
6—Stainless Steel Atmospheric Drum Dryers; 5'x10' and 5'x4' complete with drives, motors and all accessories.
1—Rotary Dryer in Nickel; good for Vacuum; jacketed; 3'x5'.
3—Rotary Vacuum Dryers by Stokes, and Buffalo Foundry; 2'x6', 5'x30", and 5'x33'.
6—Devine, Buffalo, Stokes, Vacuum Shelf Dryers; from Lab. size to Double Door 58"x39"; some complete with accessories.
3—Bartlett & Snow Stainless Vacuum Pan Dryers; 8'x3'.
50—Heavy Duty Horizontal Jacketed Mixers with double arms, sigma or nuben; geared both ends, tilting; 100 gal. working.
4—Lancaster Mixers; Stainless Steel; 10 H.P. motors.
40—Double Ribbon Type Dry Mixers in carbon and stainless steel; from 200 lb. to 6,000 lb.

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WE LIST BELOW SOME OF THE PRINCIPAL ITEMS IN STOCK.

JACKETED KETTLES

Stainless

1—400 gal. 10—75 gal.
8—80 gal. 5—60 gal.
1—40 gal.

Aluminum

1—1,200 gal., closed.
1—1,200 gal., closed, vacuum.
1—750 gal., closed, agitated.
1—350 gal., closed, agitated.
1—500 gal., closed, agitated.
20—20 gal. up to 150 gal.

Copper

1—300 gal., agitated.
1—80 gal., agitated.
20—250 gal., agitated.
1—40 gal., tilting.
15—25 gal. to 150 gal.

TANKS

10—250 gal., S.S., vertical, closed.
1—200 gal., nickel, open.
20—175 gal., S.S., oval.
20—800 gal., rect., closed, Alum.
16—250 gal., oval, Aluminum.
1—700 gal., closed, agit., lead lined, wood, with coils.
50—Assorted Steel Tanks, open and closed, vertical and horizontal from 45 gal. to 8,800 gal.

CENTRIFUGES

2—Sharples No. 6, m.d.
1—Sharples No. 6 Vaporseal Portable super, m.d
1—DeLaval No. 620 Oil Purifier, m.d.
1—DeLaval No. 600 Multiple Clarifier, m.d.

CENTRIFUGALS

1—Tolhurst 60" copper basket, center slung, underdriven, m.d.
2—K & G 60" underdriven steel basket, m.d.
1—Tolhurst 48" center slung, chip wringer, steel basket, m.d.
1—Bird 48" center slung, underwringer, steel basket, m.d.
1—Battery of 3 American 40" steel basket, m.d.

DRYERS

Rotary Vacuum

2—Bullovak 24" x 20" Rotary Vacuum single DRUM DRYERS, complete with surface condensers and vacuum pumps, Iron Drums, Copper-Lined Housing.
1—Devine 5' x 33' ROTARY VACUUM DRYER.

Rotary Steam Tube

1—6' x 50' Louisville Rotary, with 2 rows of 54 tubes 3½" and 4", gear reducer drive.

Direct Heat Rotary

1—42" x 28' with lifting flights.
1—6' x 23' Hershey rotary, with heating coils.

Vacuum Shelf

2—Devine 40 x 43", 1—9 shelves and 1—5 shelves, with condensers.
1—Bullovak 42 x 42", 8 shelves, with condenser.

Drum Dryers

1—Anco 3' x 6' single drum, m.d.
1—B&C 36 x 81 double drum, complete.
1—Bullovak 32 x 72 double drum.

ALL ITEMS LISTED HERE IN STOCK IN NEWARK

FILTERS & FILTER PRESSES

1—8' x 12' Oliver Rotary, acid proof.
1—No. 10 Sweetland.
2—No. 5 Sweetlands, 29 bronze leaves 2" c/c.
1—34 x 36, O.D. P&F 37 chamber, 1" cake.
8—Sperry 30 x 30" Iron Skeletons.

VACUUM PUMPS

1—26" x 11" Ingersoll-Rand ES-1, with 60 H.P. motor, 1918 cfm.
4—Stokes, size 212C High Vacuum Pump, M.D., cap. 100 cfm.
2—Ingersoll-Rand DRY VACUUM PUMPS, Imperial No. 10-8, belt driven, capacity 1,018 cfm.
1—Devine 12 x 12 Horiz., Rotary, valve dry, 196 cfm.

TABLET MACHINES

1—Colton No. 4½ single punch, max. dia. 1½".
2—Stokes RD-4 Rotary 15 punch maximum 1" dia.
2—Stokes "E" single punch, maximum 2½" dia.
1—Stokes "F" single punch, maximum ¾" dia.
1—Stokes "N" single punch, maximum ½" dia.
3—Stokes RD-1 Rotary 15 punch, maximum 1" dia.
1—Stokes "DD" Rotary 23 punch maximum 5/8" to 1 7/16".

ROLLER MILLS

1—Kent, 16x10, motor driven.
2—Day, 12x32, motor driven.
2—Kent, 12"x30", motor driven.
3—20x48", belt driven.

SEND FOR COMPLETE LIST OF PAINT MACHINERY

EXTRACTORS

5—Troy 48" dia. EXTRACTORS, clear top, with perforated steel baskets, underdriven. V-belt drive attached to vertical mounted motor 5 H.P. 220 volt. Complete with Automatic Timing Device, motor controls, practically new condition.

LABELERS

3—World Rotary automatic, with conveyors, m.d.
2—McDonald straight line, m.d.
6—Arnold and World semi-automatic, m.d.

HEAVY DUTY MIXERS

3—200 gallon Baker Perkins, jacketed, sigma blades, hydraulic tilt.
1—100 gallon Baker Perkins, jacketed, hydraulic tilt.
1—20 gallon Baker Perkins, jacketed, hydraulic tilt.
1—9 gallon Baker Perkins jacketed, hand tilt, stainless steel trough.
1—150 gallon W&P unjacketed, bronze, nuben blades.
1—100 gallon W & P unjacketed, nuben blades.
1—50 gallon W&P unjacketed, nuben blades.

• ALL ITEMS SHOWN ABOVE IN STOCK IN NEWARK WAREHOUSE •

ANOTHER LIQUIDATION

Unused and Slightly Used Machinery from War Plant

Oliver Precoat Rotary Vacuum Filters; Oliver Rotary Filters; Sperry 36" Iron Filter Presses; Kilby 39" Iron Filter Presses; Unused triple effect Evaporator; 19,600 gallon new vertical Steel Tanks; West, new Capacitor; New No. 8A Gyro Whip Sifter; New West, Air Compressor, 50 HP motor; New Morris 3" x 3" Centrifugal Pumps; New Spencer Turbine Industrial Vacuum Cleaner; New American Well Wks. Pumps, 1000 gpm.

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Baker Perkins 100 gallon jack. Mixers; 36" Copper Fractionating Columns; American Tool 40" Centrifugals; American Tool 42" Centrifugals, S.S. baskets; I. R. Centrifugal Pumps, 4000 gpm.; LaBour non-corrosive Centrifugal Pumps; Tank Scales up to 1000 ton; Lead-Lined Steel Stills; 1200 gal.; Barometric Condensers; Hydraulic Extrusion Presses; MISCELLANEOUS—Compressors, Agitators, Dryers, Shredders, Tanks, Heating Units, Conveyors, Water Softening System. SEND FOR DETAILED LIST.

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JUST PURCHASED

5—Abbe 6' x 8', 5' x 4' Porcelain-Lined Jacketed Pebble Mills, motor driven.

No. 1 Banbury Mixer, chromium plated trough, stellite tipped blades, 40 h.p. motor.

FILTERS & FILTER PRESSES

2—30" x 30" C.I., 35 chambers.
6—18", 24", 32", Wood P&F.
5—No. 2, 7, 10, 12, SWEETLANDS.
1—NO. 59 VALLEZ, 945 sq. ft.
5—No. 2B Vallez, 16 to 24 sq. ft.
2—Swenson Rotary, 4' x 1', 6' x 2'.
14—Oliver, 8' x 10', 8' x 6', 8' x 12', 11' x 18'.

KETTLES, TANKS, STILLS & CRYSTALLIZERS

2—Pfaudler 100, 2,000 gal. Glass-Lined Reactor.
2—Steel 400 gal. Kettles closed jacketed agitators, 50 LB. internal pressure, 5 HP exp-proof motors.
5—DOPP 150, 250 GAL. Jacketed, Agitated Kettles.
15—Stainless Steel Kettles, 60, 80, 100, 150, 200, 300, 500 gals.
2—Pfaudler JACKETED AGITATED GLASS-LINED KETTLES, 60 & 150 gal. Stainless Agitators.
12—Pfaudler Tanks, 40 to 500 gal.
3—Copper stills, 100, 150, 400 gals.
2—Buflovak 6' Vac. Crystallizers.

CENTRIFUGALS—CENTRIFUGES

5—A.T.&M. 48" & 40" SUSPENDED CENTRIFUGAL, Stainless Steel.
2—A.T.&M. 32" SUSPENDED CENTRIFUGALS, Steel Baskets.
2—Sharples No. 16 VAPORTITE CENTRIFUGES, with stainless steel bowls, explosion-proof motors.
2—Sharples No. 6 Pressuretite and Super Centrifuges.

SPECIALS

1—Day 12" x 30" W.C. 3-Roll Mill, 15 HP Exp.-Proof Motor.
7—Day, Orville Simpson 20" x 48" to 40" x 120" Rotex Sifters.
1—OLIVER Rotary Filter, 3' x 4'.
16—2 Truck Atmospheric Steam Heated Dryers (Ross Engineering), 500 sq. ft. drying surface, aerofin heaters, fans and motors, 10' x 9' x 11' high.
1—No. 2 Sweetland Filter 316 Stainless Steel body and leaves.
2—Mikro Nos. 2DH, 3TH Pulverizers.

MIXERS & SIFTERS

1—Baker Perkins, Type VI, Class BB, size 15, jacketed SIGMA BLADES.
1—Day No. 6 CINCINNATUS, 100 gal., SIGMA BLADES.
1—Baker Perkins, Type VI, Class BB, size 14, SIGMA BLADES, 50 gal.
1—Readco 4 gal., S.S., double arm.
35—Powder Mixers, 400, 600, 1,000, 2,000 and 3,000 lb., Motor Driven.
12—Portable Electric Agitators, ¼ to 2 HP, 400 to 1,725 RPM.
10—80 & 100 gal. Lead Mixers, motor driven.

DRYERS

2—Buflovak VAC. SHELF DRYERS, 20-42" x 42" shelves.
1—Atmos. Drum Dryer 4' x 8'.
1—Lectrodryer C-75, 750 C.F.M.
1—BUFLOVAK 32" x 90" ATMOSPHERIC Double Drum Dryer.
2—ROTARY VACUUM, 5' x 30', 2' x 6', 4' x 20', 2½' x 8'.

MILLS—PULVERIZERS

1—No. 6 MIKRO ATOMIZER 20 HP.
2—HARDINGE 6' x 22", 3' x 24", Conical Steel-Lined Ball Mills.
1—Eppenbach Colloid Mill, stainless steel, ½ HP.
2—Raymond No. 00, No. 0, Screen Mills.
3—Ball & Jewell No. 0 and No. 1 Rotary Cutters.
1—Abbe No. 3 Eureka Jar Mill, 14 gals.
1—Abbe 10 Jar Mill, 10—¼ gal. Jars.
2—NEW 2' x 3' 3' x 4', Porcelain Lined Pebble Mills.

MISCELLANEOUS

11—Hydraulic Presses 30 to 225 ton.
1,500 FT. 16", 18", 24" ROLLER CONVEYOR.
25—Stokes, Colton Tablet Machines, single and rotary, ½" to 2½".
25—OLIVITE ACID RESISTING 2" CENTRIFUGAL PUMPS.
2—Kiefer Visco Fillers up to 36 oz.
3—Stokes & Smith Powder Fillers.

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EQUIPMENT FOR CHEMICAL AND ALLIED INDUSTRIES

1—Buffalo Vacuum Shelf Dryer, 17 shelves.

1—Devine Vacuum Shelf Dryer, No. A.
4—Louisville Rotary Steam Tube Dryers, 6' x 50'.
1—Louisville Rotary Steam Tube Dryer, 54" x 30'.
5—Monel Storage Tanks, 1,800 gallons.
3—Shriver Filter Presses, 7" x 7".
2—Shriver Plate & Frame Filter Presses, 42" x 42".
5—Simpson No. 0 Intensive Mixers (NEW).
2—Royle Extruders, No. 1 and No. 2.
15—Sharples, Super, Pressurite Centrifuges with 3 HP motor.

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IN STOCK

1—Baker Perkins 200 gal. Double arm Jack. Mixer.
1—Lehman 4 Roll W.C. 12" x 36" Steel Mill 20 H.P. Motor.
3—Hardinge Conical Ball Mills, 4½' x 24" & 3' x 8".
4—Allbright-Nell 4' x 9' Atmos. Drum Dryers & Flakers.
1—No. 12 Sweetland Filter, 71-36" copper leaves on 2" centers, hydraulic opening & closing.
1—Badger 42" dia. Monel Bubble Cap Column.
1—Buffalo Vac. Drum Dryer 24"x30".
1—Devine Vac. Shelf Dryer, 9—40"x 42" steam shelves, 6" spacings.
2—Sperry 18" sq. Lead Filter Presses.
15—Sperry & Shriver, 12", 18", 24", 30", 32" & 42" sq. Iron Filter Presses.
2—Shriver 18" Sq. Plate & Frame Wood Filter Presses.
3—Baker Perkins heavy duty Jack. Mixers, 200, 100, 50, 9 & 0.7 gals.
1—Day Jumbo 350 gal. Horiz. Steel Jack. Mixer.
1—Royle No. 2 Perfected Extruder.
2—Abbe No. 18 Bluttergess Sifters.
1—Tyler Ro-Tap Sifter ¾ HP.
9—Tolhurst 40" Suspended Type Centrifugals, Bottom Discharge Also 26" Rubber-Lined.
2—Lehman 3-Roll Water Cooled Steel Mills, 9" x 22", 12" x 30" & 16" x 40".
2—Stokes RD4 Rotary Tablet Machines, 16 die openings 1 3/16" dia. Also ⅝", 1", 1¼", also single punch.
1—Hutchman 6" Double Screw Plodder.
2—Jones Type E, A & K automatic Soap Presses.
1—Huber 25 ton Para Block Press.
1—Houchin 12" x 24" 3-Roll Granite Stone Mill.
11—Sharples No. 5A Stainless Oil Centrifuges, late type, 2 H.P.
2—Manton Gaulin Stainless Steel Homogenizers, type 200 & 300.
Devine 800 & 1,000 gal. closed steel Kettles & Stills.
1—Koven new 200 gal. agitated jacketed Kettle.
1—250 gal. lead-lined Kettle.
10—Dry Powder Mixers, 50 to 2,500 lbs.
6—New & Used 40 gal. Pony Mixers.
3—Stokes & Day Powder Fillers.
1—Standard Knapp Can Labeler.
1—Abbe Pebble Mill, 24"x36", 50 gals.
2—Buckbard 28" & 30" Revolving Pans.
10—Stokes Vert. High Vac. Pumps.
2—Sharples 2" x 2" Centrif. Pumps.
1—Sturtevant 26" Rack Emery Mill.
1—Gruendler 5" x 6" Jaw Crusher.
1—Sharples No. 6 Centrifuge.
1—Samco Jr. Vac. Bottle Filler.
6—Pfaudler Glass-Lined Jack. Agit. Kettles, 350, 400, 500 gals.
25—Stainless Tanks, 100 to 3,000 gals.
1—Colton Hand Tube Filler.
6—Filling, Labeling, Cartoning & Wrapping Machines.
10—Stainless steel, jacketed Kettles, new & used, 40, 60, 80, 100, 375 & 500 gals., some agitated.
12—Alum. Jack. Kettles, 50 to 100 gals.
18—Copper Jack. Kettles, 2, 30, 50, 75, 100, 250 & 350 gals., some agitated.
15—Port. Elec. Mixers, ¾-2 HP.
1—Abbe 2 Jar Mill, 2 gal. Jars.
1—Abbe No. 0 Rotary Cutter 5 H.P.
1—Williams No. 3 Hammer Mill.
2—Jeffrey & Stedman Hammer Mills 12" x 9", 15" x 8" & 24" x 11".
1—Stedman 52" Single Roll Crusher.
1—Jeffrey 18" x 48" Single Deck Conveyor Screen.
4—Day Pot Mills, 24" x 32" dia.
8—Centrifugals, 20", 26", 30", 46".
4—No. 0000 and No. 0 Raymond Mills.
4—Dopp Jack Kettles 10 to 50 gals.
1—Blystone 2,500 lb. horiz. Spiral & Paddles Steel Mixer.
6—Horiz. Mixers, 20 to 250 gal.
6—Lead & Paste Mixers to 200 gals.
1—Faust 150 gal. Jack. Spiral Mixer.
2—Worth 12" x 12" x 12" Vac. Pumps.
2—DeLaval Multi. Clarifiers, 300 & 301.
2—Rotary Screens, 18" x 72".
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OIT Establishes Code

—*Continued from page 5*

buyer's furnishing a license to export the goods in question.

The new regulation also fixes definite responsibilities on the ultimate consignee and other persons who supply information for the purpose of securing an export license or any other export control document. Falsification of the country of destination or of the name of the ultimate consignee, any attempt to divert controlled commodities to a country other than that named on the license, and submission of an import order with the intention of not carrying out its terms are all prohibited.

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3—9" x 24" motor driven roller mills.
1—16 x 40 roller mill.
3—12 x 30 roller mills.
PONY MIXERS from 2½ gallons to 40 gallons.
2—4'6" x 5' burr stone-lined pebble mills.
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- Mikro 4th-24", 1-SH and Bantam Pulverizers, Jay Bee, Schutz-O'Neill Mills, etc.
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- F. J. Stokes, J. H. Day, New Era, Hottman Mixers. From 2 gallons to 450 gallons, with and without jackets, single and double arm agitators.
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- Horix Stainless Steel Rotary Filler, Elgin 24-Head Rotary Filler, Bagby Twin Piston Filler with Bottom Feed.
- 2 Pony Labelrites, Burt, Ermold and World Semi-Automatic and Fully Automatic Rotary and Straightaway Labelers.
- Pneumatic Scale Single Head Automatic Capper.
- Stokes and Colton Late Style Rotary Tablet Machines.
- Standard Knapp No. 429 and J. L. Ferguson Carton Sealers.
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1—Day 3-roller Mill 16" x 40" Water Cooled.

1—Kent 3-roller Mill 12" x 30" Water Cooled.

1—Hartnett 3-roller Mill 9" x 28" Not Water Cooled.

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10—Weild, Ermold, N. J. Auto. and Semi-Automatic Labelers.
1—Arenco Tube Filler, Closer & Crimper.
1—Robinson S.S. Single Deck Sifter.

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50—Stainless Steel Tanks and Kettles from 50 to 200 gal.
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20—Steam Jacketed Kettles, stainless steel and aluminum, 30 to 250 gals. cap.
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1—Buflovak Impregnating Tank, 42" x 52", steam jacketed.
2—Flow-Master Kom-bi-nators.
2—New Ribbon Type Mixers, 8 and 24 cu. ft.
4—Steel Tanks, 100,000 gal. each.
4—Steel Tanks, 67,500 gal. each.
Sterilizers 18 x 18 & 24 x 27 with clamp-down covers and safety valves.
1—Sperry Filter 18 x 18—24 plate.
1—DeLaval Lab. Separator with ½ H.P. motor.
1—18-spout Karl Kiefer Rotary Filler.
6—Stokes Rotary Tablet Machines, Model RD-4.
10—New Sharples Oil Purifiers.
6—New Clevon Can Filling Machines.
2—American Hard Rubber Pumps, 200 gpm at 50', DC to 7½ H.P. motors.
1—Duriron Centrifugal Pump, 200 gpm.
24—Worthington Bronze Cent. Pumps, DC to 2 H.P. motors, new.

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Newly formed sales agency contacting confectionery, bakery and beverage manufacturers. Will consider exclusive representation in Chicago area. Our personnel have years of technical and practical experience in the food industries. OPD 799.

New York sales executive desires connection as manufacturer's representative or equivalent. Has nationwide, top level contacts with many prominent manufacturing companies in such industries as meat packing, flour milling, food processing, soaps, chemicals, fats and oils. Experienced in promoting new products and technical processes. Able public speaker and writer. Knows how to get results. Can supply business and personal references of highest order. Interested only in proposition having strong commercial and technical qualities. Correspondence invited. Write to OPD 800.

Experienced former export manager (including chemicals and pharmaceuticals) leaving August for protracted European residence, desires agencies on commission basis, particularly for Scandinavian countries, Holland, Italy and Greece. Have legal background and speak several languages. OPD 812.

BUSINESS WANTED

Live wire successful chemical merchant, export-import-domestic, highly regarded in the trade, wants to buy outright or acquire active interest in chemical business, or will entertain similar proposition. Present volume of secondary importance. All correspondence strictly confidential. OPD 813.

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For sale — Large J. H. Day putty chaser; three 12 x 32 roller mills; three 30-gallon paste mixers. All in good running condition. No dealers. OPD 807.

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10—Auto., 1, 4 & 6 head.
12—Cap Tighteners, NEW.

CLEANERS
3—P-S Air Cleaners for bottles or cans.
2—U. S. Rotary Rinsers, 60 spout.
3—Kiefer Rotary Rinsers, 72 spout.

CONVEYORS
1100 ft. Gravity, steel, wheel, NEW.
850 ft., Gravity, steel, roller, NEW.
5—14" W. Belt, 52', 130', 135' long.
1—18" W. Belt, 80' long.
8—Belt work table, to 22" W. x 50' L.
1—Portable Booster, 12" W. 10' L.
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Has Carton Former with Bottom Gluer, single or double spout auger type filler. Carton top gluer and Compression belt, intermediate conveyor. Forms for 12 size cartons. Up to 60 per min.

FILLERS
2—4 PISTON, Stainless & Bronze.
3—Powder, single auger type.
2—Powder, double auger type.
1—Powder, bulk type, stainless.
8—Semi Auto. Vacuum, 6, 8, 12 spout.
5—Syphon, 6 & 8 spout.

LABELERS
Fully Automatic or Semi Automatic. For bottles and cans, round or flat, large or small. Over 25 units in stock from which to choose.

MIXERS
11—Powder, ribbon type, 100 to 1,000 lb.
8—Blenders, copper, 25 lb. to 500 lb.
7—H. D. double arm, jacketed tilting, 50-150 gal. wkg. cap.
3—H. D. single arm, up to 150 gal.
4—Beater type Paste, 50 lb./400 lb.
50—¼ HP to 1 HP Portable Agitators Many Xpl. Pr.

PRESSES
1—Stokes "R" 15-Ton, single punch.
6—Single punch, ½" & 1" tablets.
4—Colton, No. 2, 16 punch.
7—Stokes RD-4, 16 punch.
5—K-G Briquetting.

MISCELLANEOUS
2—Std.—Knapp T&B case gluer and Compr. Unit.
4—Acme Carton Stitchers, elec, op.
2—Tank Scales, 2,000 lb. & 3,000 lb.
2—Hopper Scales, 1,000 lb. & 2,000 lb.
50—Jktd. Kettles, stainless, stainless clad, copper, iron.
42—Stainless Steel Tanks, to 500 gal.
10—Duriron Pumps, 1" x 1", 2" x 1½", 4" x 3".
1—No. 10 Sweetland Filter.
3—Micro Pulverizers, No. 4, No. 2DH, No. 1.

ALSO: COLUMNS, CONDENSERS, DRYERS, EVAPORATORS, EXCHANGERS, FILTERS, MILLS, STILLS

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EQUIPMENT OFFERED

2—Buffalo drum dryers 24" x 20" complete with wet dust collector, vertical surface condenser, 2-stage vacuum pump, Reeve's variable speed drive. With or without motors. 1—Additional used Buffalo 2-stage vacuum pump, both cylinders 8½ x 8½ x 7 for above drum dryers. 1—Used Tolhurst centrifuge 12" S.S. with 1-3 HP explosion proof motor. Used less than 6 months. 1—Gruendler hammer mill—Laboratory size—all-steel construction with 1 HP motor. 1—Robinson rotary sifter—Screen 11½ D. x 30" length. Contact parts S. S. No motor. Slightly used. 10—Sweetland filter leaves 20" D., bronze, ¾" outlet. 1—Hummer vibrator conveyor. Used slightly. Purchased 1946. 1—Ampul sealing machine for Klick-off ampuls. Also stock of ampuls. 7—Foot operated heat sealing machines—bench type. 2—Unused Fredericks coal stokers. Underfeed for 400 HP boilers. 6—Used Underwood fanfold billing machines. Excellent condition. For full particulars contact Mr. G. Tacke, Burroughs Wellcome & Co., Inc., Tuckahoe, New York.

Used equipment for sale: 234 sq. ft. surface condenser, copper tubes, Everdur shell, tube sheets and expansion joint, steel water box, 4-pass countercurrent water and vapor flow, first class condition. Make best offer FOB Cincinnati; available immediately. OPD 808.

EQUIPMENT WANTED

Wanted: Shriver or Sperry plate & frame filter press for varnish—13 or 24" square, closed delivery, 20 chamber minimum. Farnow Varnish Works, 4-80 47th Road, Long Island City, N. Y.

FACILITIES OFFERED

Plant available: Facilities for extraction, evaporation, distillation, crystallization and other unit operations for the manufacture of drugs and chemicals on basis of contract arrangement. Full facilities can be arranged for growing of raw material to processing of finished product. Plant staffed with competent technical personnel, with manufacturing carried out under rigid laboratory control. OPD 806.

Pulverizing facilities available. Suitable for chemicals, drugs, pharmaceuticals, or other clean materials. Ideal source for supplementing small plant operation. OPD 773.

FACILITIES WANTED

Wanted — Acetic acid concentrating facilities. Tank car quantities. OPD 805.

MATERIALS OFFERED

Offering: 1500 lbs. neo-fat No. 1-56, 2500 lbs. Wecoline AB, 350 lbs. Duponal WA paste. All packed in original containers. 200 Gross Hazel-Atlas 4 3/64 oz. opal jars L-66 H lug black P & H caps attached. Packed inner and outer cases. Perfect condition. All items priced for quick sale 25% off on list price f.o.b. Cleveland. Oxford Products, Inc., 1814 E. 40 St., Cleveland, Ohio. Phone: EXpress 3359.

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Chemicals wanted—We purchase manufacturer's and user's surplus inventories at top market prices. We currently require solvents: butyl acetate, butyl alcohol, methyl ethyl ketone; mono, di- and triethanolamine, glycols, pigments; plasticizers: dioctyl phthalate, triceresyl phosphate; intermediates: bichromates, maleic & phthalic anhydrides; dye-stuffs and toners. Odd lots, discontinued formulae, unusual mixtures welcome. All transactions confidential. Aceto Chemical Co., Inc., 104 Fifth Ave., N. Y. C. 11, WAtkins 4-8824.

Do not wait until conditions further limit prospects of disposing of top-heavy inventories. Will purchase surplus unshipped commodities all kinds. Particularly interested in pigments, chemicals, dyes, colors, waxes, drugs, pharmaceuticals, etc. OPD 810.

Urea (DuPont), bichromates, ethylene glycol, secondary butyl acetate—needed by manufacturer. Submit offerings for best price. OPD 767.

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Wanted — Complete plants, also machinery — Large engineering firm wishes to acquire several complete plants through purchase of (1) capital stock, (2) assets, (3) machinery and equipment, whole or in part. Personnel retained where possible, strictest confidence. Box 694, 1474 Broadway, New York 18, N. Y.

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Salesman wanted — Leading manufacturer of white and colored pigments has an outstanding sales opportunity. Preference given to man with chemical training and several years technical experience in the paint industry. Should have sufficient knowledge of pigments to be able to recommend their use to paint manufacturers and allied industries. Great Lakes location. Salary, insurance, retirement program. Car furnished. Replies confidential. Address OPD 789.

Electrochemist with 4-8 years of industrial experience and with a thorough background in physical chemistry, inorganic chemistry and related sciences desired for an opening in the research department as assistant director. The company is engaged in an intensive and extensive research and development program in the field of alkaline storage batteries. (There is an excellent opportunity afforded in this new and growing industry) Location, New England. OPD 803.

Paint manufacturer N. Y. area wants chemist with thorough knowledge in formulating Industrials, shelf goods, baking coating, and synthetics. (1) hour from Grand Central Station. State age, experience and salary expected. Baer Brothers, 700 Canal Street, Stamford, Conn.

Ointment manufacturer, New England, wants experienced chemist or pharmacist able to take charge of production, conduct correspondence with physicians. OPD 809.

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POSITIONS WANTED

Organic chemist: A.B., 14 years' industrial experience, chiefly responsible, supervisory, in production and development of fine and heavy organic chemicals, including pharmaceutical, rubber, aromatic and others. Desires responsible position requiring above background. Available on reasonable notification. OPD 797.

Litho-printing ink over-all management: Experience (nearly all phases) available Sept. 1st to concern in that or kindred industry. College graduate; excellent background: knowledge of raw materials, labor-factory management, inventory control, purchasing, sales. Only "A-1" type of concern will be considered. References exchanged upon mutually-confidential basis. OPD 798.

Executive assistant: Former officer, general manager, and director of dyestuff and chemical company with over twenty years' experience covering purchases, sales, production, organization, labor relations and union negotiations seeks position where experience can be used at a reasonable salary. Can give highest ability and character references. OPD 801.

Development and production chemist, 30, ten years' fine organic experience. Expert all phases penicillin and streptomycin production. Skilled engineering and plant management. Many patents. PBK. Desire responsible position or consulting arrangement. Go anywhere. OPD 787

Chemical engineer, desires position as small company plant engineer. Ten years in equipment design and layout, process development and design cost analysis, production supervision and plant maintenance. Fields include fine chemicals, cosmetics, dyes and pharmaceuticals. OPD 795.

Chemical production executive: Record of outstanding successes in increasing production, decreasing costs, improving labor relations. Twelve years well-rounded experience in production, engineering, management. Young and energetic. Seeks position as plant manager or production manager. OPD 763.

Chemical plant manager—Production executive desires similar position in chemical or related field. B.S. in chemical engineering. 15 years experience in heavy chemicals. Well-grounded in fundamentals of administration and management. Excellent record in developing men, handling labor and producing quality chemicals, safely at low cost. OPD 794.

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PHOSPHATE LEASE

U. S. DEPARTMENT of the Interior, Bureau of Land Management, Washington 25, D. C. Notice is hereby given that sealed bids will be received until 1 p.m., Eastern Daylight Saving Time, August 4, 1948, for the following described lands situated in Powell County, State of Montana: Lots 1, 2, 3, S½NE¼ sec. 2, T. 10 N., R. 7 W., P.M., and the SW¼, W½SE¼ sec. 26, SE¼SE¼ sec. 27, NE¼, N½SE¼ sec. 34, lots 1, 2, 3, 4, W½NE¼, NW¼, N½SW¼, N½SE¼ sec. 35, T. 11 N., R. 7 W., P.M., containing 1281.11 acres. This land is offered at a minimum bid of $100 for the entire acreage to qualified bidders of the highest cash amount, as a bonus for the privilege of leasing under the phosphate provisions of the act of February 25, 1920 (41 Stat. 440; 30 U.S.C. sec. 211), subject to a minimum investment of $50,000 during the first three years of the lease, a minimum annual production of 5 tons per acre, commencing with the fourth lease year and the following royalty provisions: A royalty of 5 percent of the gross value of phosphate or phosphate rock and associated products recovered and sold or otherwise disposed of at the point of shipment to market, which royalty shall not be less than 15 cents a ton of 2,000 pounds mine run. It is expressly agreed that the Secretary of the Interior may establish reasonable minimum values for the purpose of computing royalty on any phosphates or phosphate rock and associated products, due consideration being given to the highest price paid for a part or a majority of the production of like quality products from the same general area, the price received by the lessee, posted prices and other relevant matters. The lease, if issued, shall contain a provision that operation thereafter will not cause undue interference with the grazing of sheep on the Ophir and Salvelinus sheep grazing allotments and that the lessee shall guard against any contamination of the waters of the Salvelinus Creek as a result of mining or milling operations. All bids, the minimum of which must be $100 for the entire acreage must be submitted to the Director, Bureau of Land Management, Washington 25, D. C., and each bidder must submit with his bid one-fifth of the amount bid in cash or by certified check on a solvent bank, or by money order, made payable to the order of the Treasurer of the United States, and file the showing of qualifications to receive a lease, required under 43 CFR 196.6(b) and (c). The envelopes shall be plainly marked, "Bid for phosphate lease. Not to be opened before 1 p.m., Eastern Daylight Saving Time, August 4, 1948." No bids received after the hour fixed herein for receiving bids will be considered. Prior to the issuance of a lease, the successful bidder must pay the remainder of his bid, the annual rental at the rate of 25 cents an acre, and a filing fee of $10, and furnish lease forms and a bond with approved corporate surety in the sum of $5,000 (43 CFR 196.12). The deposit of the unsuccessful bidders will be returned upon acceptance of the successful bid. Bidders are warned against violation of Section 59, U. S. Criminal Code, approved March 4, 1909, prohibiting unlawful combination or intimidation of bidders. The right is reserved to reject any and all bids. Marion Clawson, Director.

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Imperial Oil, Ltd., is planning the construction of a 500 mile pipeline in the province of Alberta, Canada.

Socony-Vacuum Oil Company, New York, has appointed Stephen P. Cauley assistant manager of its fuel oil division.

Oil Well Supply Company, Dallas, Tex., has named M. E. Nicklin manager of sales for its Witte Engine Works division. Mr. Nicklin is also manager of the parent organization's export division.

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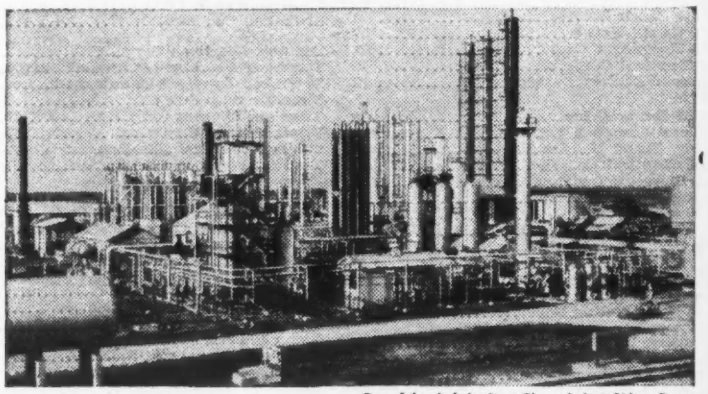

One of the alcohol units at Chemcel plant, Bishop, Texas

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METHYLAL
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